



TELEPHONE NUMBER:
2617 CENTRAL (3 lines).

**Established In
ENGLAND, 1859.]**

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,
LONDON, E.C.

TELEGRAPHIC ADDRESS:
"CHEMICUS, CANNON, LONDON."
[Charged as two words only.]

**Established In
[AUSTRALASIA, 1885.]**

No. 1,909. Vol. LXXXVIII.

AUGUST 26, 1916.

{ Subscription Rate, 12s. 6d. per annum.
Single Copies, 6d. each. Winter and Summer
Issues 1s. each. Post Free.

Extract of Malt

with

Cod Liver Oil

packed in amber-
tinted glass jars
—labelled.

SIZES.

$\frac{1}{2}$ lb., 1 lb.,
2 lb., 4 lb.

Orders can be re-
ceived for delivery.



**Allen &
Hanburys,**
Limited,
London.



Extract of Malt

with

Cod Liver Oil

packed in amber-
tinted glass jars
—labelled.

SIZES:

$\frac{1}{2}$ lb., 1 lb.,
2 lb., 4 lb.

Orders can be re-
ceived for delivery.



**Allen &
Hanburys,**
Limited,
London.

NOTICE.

MESSRS. WRIGHT, LAYMAN & MUMNEY, LIMITED, beg to announce that in consequence of the heavy and urgent demand for

Wright's Coal Tar Soap

for the BRITISH EXPEDITIONARY FORCE, RED CROSS AND OTHER HOSPITALS, Y.M.C.A., &c., they are compelled to abandon for the moment the bonus for window displays. They trust, this notwithstanding, to have still the active co-operation of their retail friends, and that it may be possible to resume the old arrangement at an early date.

Southwark, London.

August 14, 1916.



PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

R. W. GREEFF & Co. offer at lowest prices the following products manufactured in the United Kingdom, Allied and Neutral Countries

(WHOLESALE QUANTITIES ONLY)

Acetanilid	Gallic Acid	Phenacetin
Amidopyrin	Glycerophosphates	Phenazone
Barbitone	Guaiacol Carbonate	Pyrogallie Acid
Bromide of Ammonium	Heliotropin	Potassium Sulpho-Guaiacolate
Bromide of Potassium	Hexamine	Quinine and Salts
Bromide of Sodium	Homatropine	Quinine Ethyl Carbonate
Chloral Hydrate	Hydroquinone	Salicylate of Soda
Cinchonine Sulphate and Muriate	Isarol (best Ichthyol substitute)	Salol
Cinchonidine Sulphate	Lithia Carbonate	Sugar of Milk
Citric Acid	Lithol (Ichthyol substitute)	Tannic Acid
Cocain Hydrochlor and Puriss	Mercurials	Tannin Albuminate
Cream of Tartar	Methylene Blue Medicinal	Terpineol
Creosote Carbonate	Methyl Salicylate	Terpine Hydrate
Eucalyptus Oil—B.P. 70%	Peppermint Oil	Theobromine
Formaldehyde	Pepsines, Pancreatin, Peptone and other digestive Ferments	Thymol Crystals
		Vanillin

R. W. Greeff & Co.,

THAMES HOUSE,
QUEEN ST. PLACE,
LONDON, E. C.



MANCHESTER BRANCH:
Lloyds Bank Buildings,
King Street.

ALSO AT

NEW YORK:
R. W. Greeff & Co.,
80, Maiden Lane.

PROTEIN PREPARATIONS

OF EVERY KIND

FOR THERAPEUTIC SERVICE.

MELARGEN.—Silver Albuminate, 10%
Ag. Readily soluble, antiseptic, non-irritating.
Does not precipitate on standing. Valuable in
Ophthalmia, &c.

GLUTARGEN.—Silver Gelatose, 14%
Ag. Very soluble. Medium silver strength.
Non-caustic.

NUCLARGEN.—Silver Nucleinate, 30%
Ag. Easily soluble. For use where concentrated silver applications are indicated.

GLUTIODIN.—Iodised Glutin. 10%
Iodine, directly combined. Supplied in Tablet
or Powder form.

FERRALBIN.—Iron Albuminate 15%
 Fe_2O_3 . Soluble in digestive fluids. Tasteless.
Supplied in 0.2 gram tablets.

ARGENT PROTEINATE.—8%
Ag., entirely soluble. A mild antiseptic, most
useful in dilute solutions and for dressing
wounds, burns, &c.

ALBIODIN.—Iodised Protein. 10%
Iodine directly combined. For injection or
lotions. Antiseptic, non-irritating.

Prompt supply from stock. Inquiries invited for any required protein compound.
Particulars of any of the above preparations with prices.

MELLIN'S, 48 Regent Street, London.

“FERROCARNIS”

A pleasantly flavoured solution of iron in organic combination with
BRAND'S Concentrated Raw Meat Juice.

Ferrocarnis combines the stimulating properties of meat juice with the tonic effect
of iron. This product does not cause constipation, and thus affords a means
of administering iron to patients who are unable to take ordinary iron preparations.

PREPARED BY

BRAND & CO., LTD., MAYFAIR WORKS,
SOUTH LAMBETH ROAD, S.W.

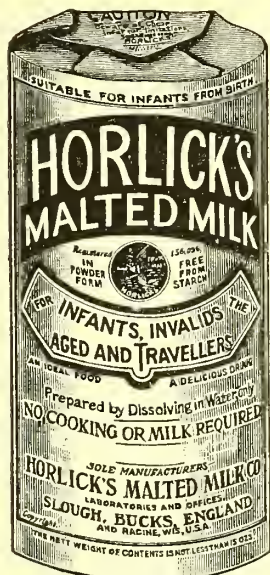
WINGARNIS

Sells readily ALL the time.

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established
by law that Registered
Chemists may sell
“Wincarnis with
Quinine” *without* a
licence.



THE PACKAGE.

HORLICK'S MALTED MILK

THE IDEAL FOOD FOR ALL AGES.

NO ADVANCE IN PRICES
OF EITHER POWDER OR TABLETS

Prices in single dozens, in both powder and tablet forms :

Liquid Capacity of Bottles.

1/6 SIZE	- 9 OZ.	- 14/9	per dozen.	Packed 1 dozen in a case.
2/6 SIZE	- 19 OZ.	- 24/9	per dozen.	Packed 1 dozen in a case.
11/- SIZE	- 99 OZ.	- 100/-	per dozen.	Packed 3 and 4 in a case

If FULL dozens are ordered and an order made for £8 8 0 CARRIAGE WILL BE PAID IN GREAT BRITAIN, and the prices of the 1/6 and 2/6 bottles will become 14/- and 23/- per dozen each. Both powder and tablets and bottles and flasks may be included in the £8 8 0 lots. Less than one dozen 11/- bottles are charged at higher rates, and carriage is paid ONLY on the full £8 8 0 order. 1% for cash in seven days.

TABLETS ONLY IN FLASKS

ESPECIALLY CONVENIENT FOR
SPORTSMEN, ATHLETES, CYCLISTS,
TRAVELLERS, AND H.M. FORCES.

**PACKED ONE DOZEN IN CARTON
FOR COUNTER DISPLAY.**

6d. SIZE, 4/6 per doz. £2 10 0 per gross.
1/- SIZE, 9/- per doz. £5 0 0 per gross.

See above for terms and assortments.

Ration Tins 12/6 per doz., plus carriage, for
any quantity.

SOLE MANUFACTURERS:—

**Horlick's Malted Milk Co.,
SLOUGH, BUCKS, ENGLAND.**



THE FLASKS.

There is a Great Scarcity of Rennet for Cheese-making

**Armour & Co., Ltd., are able
to offer an Effective Substitute**

**Booklet and details
free on request.**

**Armour & Company, Ltd., are
also headquarters for all
Animal Products, such as
Pepsin, Pancreatin, Thyroids,
Corpus Luteum, and Pituitary.**

**IMPORTANT—Armour Animal Substances used
in Medicine are removed for treatment *while the
animal body is still warm*, and are unique in this
respect. The therapeutic qualities attributed to a
given remedy are thus preserved without change.**

ARMOUR & COMPANY, LTD.

Atlantic House, Holborn Viaduct, LONDON, E.C.

INDEX TO ADVERTISERS IN THIS ISSUE.

The Arabic numerals (1 to 36) in this Index refer to Advertisements in front of the literary pages, the Advertisements following the literary pages are numbered in Roman numerals (i to xxvii).

For more complete Buyers' Guide see "The Chemist & Druggist" Diary, 1916.

ALLCOCK MANUFACTURING CO., Plasters, &c.	xxxi	FORD, SHAPLAND & CO., Chemists' Printing	31	PICERNO, V. A., Chemicals	x
ALLEY & HANBURY, Ltd., Packed Goods	Cover	FRAME FOOD CO., Ltd., Foods	5	PICKARD, I. & RANKIN, Ltd., Acetyl-Salicylic Acid	ix
ALLEN, STAFFORD, & SONS, Ltd., Essential Oils, Drug Gridding, &c.	21	FUERST BROS., Chemicals (Pure and Technical)	v	PINDAR, J. W., & CO., Fill Machinery	xxxiii
ALLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals	xxiii	GALEN MFG. CO., Surgical Dressings, Sundries	xxxi	PODMORE, B., & CO., Carbon Papers, &c.	xxxi
ALTRINCHAM RUBBER CO., India-Rubber Goods	xxvii	GATES, LESLIE, R. C., Capans, Goldbeater's Skin	9	POTTER & CLARKE, Ltd., Herbs, Asthma Remedies, Crude Drugs, Packed Goods	xxii
AMERICAN DRUG SUPPLY CO., American Proprieties	xxvi	GIGNOUX FRERES & CO., French Specialties	18, viii	PREMIER DRUG CO., Ltd., Meat Tonic Wine	8
ANZORA PERFUMERY CO., Hair Preparations	25	GIMBER, W., & SON, Crepe Bandages	xxvii	QUELCH, H. C., & CO., India Rubber Gloves, Grease Paints, Vacuum Flasks	xxxix
ARMOUR & CO., Ltd., Rennet	4, Text 908	GOLDBERG, I. L., Santonine	xxi	RADIUM SALT CO., Bath Salt	xxxiii
BAISS BROS. & STEVENSON, Ltd., Drugs, Chemicals	29	GOUGH, KIDSTON & CO., Chemicals	viii	RANDALL & SON, Ltd., Methylated Spirit	22
BAKER, PARSON, & CO., Chemists' Valuers	Col. Supp.	GOWER, JOHN, Books (Secondhand, &c.)	Col. Supp.	RAWORTH, J. E., Patent Agent	xxxiii
BANDONG QUININE FACTORIES, Quinine Salts	xiii	GREEN, J. PARCHAM, & SON, Filter Papers	16	REEVE, ANGEL, H., & CO., Filter Papers	17
BAKOLA CO., Ltd., Proprieties	ix	GREFF, R. W., & CO., Chemicals (Fine and Technical)	1	RESINOL CHEMICAL CO., Medicinal Proprieties	13
BATH & WEST OF ENGLAND COLLEGE	13	GUEST, THOS., & CO., Ltd., Medicated Lozenges	8	ROSMARINE MFG. CO., Toilet Preparations	20
BECKER, SHILLAN & CO., Chemicals	xxi	HALL FORSTER & CO., Ltd., Toilet Articles	x	RIGAUD-CHAPPELLE, French Proprieties, &c.	23
BENGER'S FOOD, Ltd., Foods	36	HAMMETT, F., Safety Razor Blades	28	RILEY BROS., Ltd., Bath Cabinets	xxvii
BENNETT, SONS & SHEARS, Ltd., Pharmaceutical Machinery	34	HARRISON, ALF., & SONS, Chemists' Printing	24	ROBERTS & CO., Continental Proprieties	xvi
BERDORF & FISH, Chemists' Valuers, Transfer Agents	Col. Supp.	HARVEY & CO. (Dublin), Ltd., Veterinary Medicines	xxv	ROBERTS' PATENT FILLING MACHINE CO.	xxviii
BERTON, A. L., Surgical Dressings, Toilet Articles	xxx	HAWKER & BOTWOOD, Ltd., Mole Exterminator	xxvii	ROQUES, FERDINAND, Alkaloids, Cacydylates	v
BIRKETT & BIRKETT, Dental Mechanics	15	HAYNES, G., & CO., Surgical Dressings	xxxi	SHIRLEY BROS., Ltd., Tin Boxes, Packed Goods	9
BIRMINGHAM & MIDLAND COLLEGE	12	HERTZ & CO., Perfumery, Liquid Paraffin, Mineral Oils	9	ROWE, A. GORDON, Honey, Lemon Curd	xxxiii
BLACKIE, ROBERT, Ointments, &c.	xxvi	HEYMAN, H., Chemicals	xxxiii	RUBECK, H., Essential Oils, Thymol	Text 908
BLITHE, W., & CO., Ltd., Epsom Salts, Zinc Sulphate	viii	HIGGIN, Ltd., Volcanic Goods	xxxiii	RUDD, F. M., Peppermint Oil	25
BOAKE ROBERTS, A., & CO., Ltd., Chemicals, Essences	25	HILLCREST OIL CO. (Bradford), Ltd., Lanoline	xxv	RUDDUCK & CO., Chemists' Shop Fittings	Col. Supp.
BOEHM, F. L., Chemicals, Essential Oils	xv	HOLROYD ADVERTISING SERVICE	28	SACCHARIN CORPORATION Ltd., Saccharin	Cover
BOWDLEAR, W. H., Beeswax	28	HOMMEL'S, Dr. Haematogen	xii	SAINT-RAPHAEL CIE, Tonic Wine	7
BRADELEY & BOURDAS, Plate Polish	xxxiii	HOYLE, J. T., & CO., Chemicals	xxii	SANITAS CO., Ltd., Disinfectants	Text 908
BRAND & CO., Ltd., Foods, Meat Extracts	2	HUBBUCK, THOS., & SON, Ltd., Zinc Oxide	x	SCHUTZE, F., & CO., Soothers	32
BRITISH DIAMANT CO., Foods	xv	HUISING, C. L., American Drugs, Chemicals, &c.	vi	SHADEINE CO., Hair Dyes	xxxiii
BRITISH ORGANOTHERAPY CO., Ltd., Organotherapeutic Preparations	iv	INGRAM, J. G., & SON, Indiarubber Goods, Teats, &c.	xxvii	SHIRLEY BROS., Ltd., Tin Boxes, Packed Goods	9
BRITISH WAX REFINING CO., Petroleum Jellies, Waxes	22	ISAACS, L., & CO., Medical Glassware	xxx	SIM, Ltd., Ampoule Files	x
BROOKS, PEEL & CO., Ltd., Collapsible Tubes	16	JACKSON, ERNEST, & CO., Liquorice Tabs, Lozenges	xxvii	SINGLETON & COLE, Ltd., Tobacco and Cigars	xxxii
BROWN, B., & BRO., Drugs, Chemicals, Vegetable Oils	ix	JOE BROS. (Newfoundland), Cod Liver Oil	19	SISTER LAURAS INFANT FOOD CO., Ltd., Foods	15
BROWNING, W., & CO., Emulsions, Paraffin Lint	xvi	JOHNSON, MATTHEY & CO., Ltd., Rare Metals	15	SMITH, J. H., & CO., Fly Catchers	xxvii
BURGE, WARREN & RIDGLEY, Ltd., India-Rubber Goods, Air Cushions, Anti-Rheumatic Rings	xxxiii	JOSEPHS, PHILIP, & SONS, Ltd., Shopfittings	Col. Supp.	SMITH, T. & H., Ltd., Alkaloids, Resins & Resinoids	xii
BURNSIDE & CO., Eucalyptus Oil	ix	KAY BROS., Ltd., Cements, Flycatchers, Proprieties	xxvii	SOCIETY OF MOOR CHEMISCHE INDUSTRIE	xxvii
BURROUGH, J. L., Absolute Alcohol	Text 908	KEATING, THOS., Insect Powder	xxvi	KATWIJK, Theobromine	xxvii
BURBORGES WELLCOME & CO., 'Tabloid' Preps.	35	KELLAND, W. P., Safety Razors	28	KOLPORT BROS., Ltd., Corn Plasters, Puffs, Loofahs	19
BUTLER, E. H., & SONS, Acetanilide, Aniline Dyes	viii	KIDSTON, W. M., & CO., Gums, Petroleum Jellies	24	SPARKS, WHITE & CO., Ltd., Cod Liver Oil	iv
CARNEGIE BROS., Chemicals, Surgical Dressings	xv	KIRBY, H. T., & CO., Ltd., Pills and Tablets	36	SPATULA PUBLISHING CO., Books	12
CELLONITE CO. (DREYFUS & CO.), Acetic Anhydride, Cellulose Acetate	v	LENNON, Ltd., South African Agencies	xi	SPENCER, ISAAC, & CO. (Aberdeen), Ltd., Cod-liver Oil	31
CHATELAIN, J. L., French Medical Proprieties	xiii	LESCOT, PERFUMERY CO., Perfumes, Soaps	26	STANDARD HEALTH FOOD CO., Honey	15
CHESEBROUGH MFG. CO., Vaseline and Preps.	1	LEVERMORE, A., & CO., Ltd., Chalk (Precipitated)	xxxii	STANDARD OPTICAL CO., Ltd., Optical Goods	14
CHESTER, A. D., & CO., Ltd., Chemicals	x	LIVERPOOL LINT CO., Surgical Dressings, Lint	xxxii	STANDARD TABLET & PILL CO., Ltd., Pills, Tablets Cover	Col. Supp.
CHRISTY, T., & CO., Toilet Articles, Tartar Remover, &c.	36, xxxiii	LIVERPOOL SCHOOL OF PHARMACY, Educational	13	STEAD & CO., Photographic Exports	Col. Supp.
CLARK, CICERO S., Cachets	xxxii	LOTHOUSE & SALTER, Ltd., Foods, Asthma Remedies	7	STEVENSON, H. E., & CO., Synthetic Oils	27
COE, F. E., Advertising	Col. Supp.	LORIMER, J., Foods, Antiseptic Perfumes	x	STOKES, C. A., & CO., Ltd., Shaving Sticks	xxxiii
COLEMAN & CO., Ltd., Tonic and Medicated Wines	2	LYSOL, Ltd., Disinfectants, Fly Killers	xxxiv	STRONG, CHRISTY, Fly Catchers	xxxv
COOPER, SON, & CO., Ltd., Cachets	xxxiii	McCOTTER, S. G., & CO., American Chemicals, &c.	vi	SWALES, THOMAS, Loofahs, Corn Plasters	32
COURPIN & WARNER, Chemicals, Essential Oils	iii	MCLASHAN, D., Fruit Drink	Col. Supp.	THEW, HOOKER & GILBEY, Malted Food	6
CRAFPTON, J., & CO., Chemicals, Gelatines	v	McKESSON & ROBBINS, Capsuled Pills, Dentifrices	xi	THOMPSON, J. L., & CO., Japanese Glassware	xxxii
CUXSON, GERRARD & CO., Ltd., Surgical Dressings	26	MACFARLAN, J. F., & CO., Alkaloids, Chloroform, Emetine Salts, Surgical Dressings	xiv	TOLKOWSKY, S., Russian Crude Drugs, &c.	xx
DANYSZ VIRUS, Ltd., Vermin Killers	xxxv	MAGNUS, MABEE & REYNARD INC., Essential Oils	xx	TOMLINSON, THOS., & SON, Chemists' Valuers	Col. Supp.
DAVENPORT, J. T., Ltd., Chlorodyne	xxiv	MALLINCKRODT CHEMICAL WORKS (Canada) Ltd., Chemicals (Canadian and American)	iv	TUNBRIDGE & WRIGHT, Fly Catchers	xxxv
DAVIES, SONS & CO., Malt Extracts, Packed Goods	6	MANCHESTER MUNICIPAL SCH. OF TECHNOLOGY	12	TURNER, WILFRED, & CO., Hypodermic Syringes	xxix
DE BOOS, JOHNSON & CO., Medicinal Proprieties	x	MANSON, R., Indiarubber Goods	xxx	TYRER, T., & CO., Ltd., Bismuth Salts, Chemicals	ix
DEE OIL CO., Ltd., Petroleum Jellies	24	MAW, S., SON & SONS, Druggists' Sundries, Packed Goods, Surgical Instruments, Vacuum Flasks	11	UNIVERSITY OF BRISTOL	13
DEVILBESS MANUFACTURING CO., Atomizers	xxvii	MAY, ROBERTS & CO., Ltd., Anti-Vermis Belts	xxxvi	VAN HORN & SAWYELL, Surgical Ligatures	xxxii
DOMICO CO., Proprieties	xxviii	MEADE-KING, ROBINSON & CO., Petroleum Jellies	24	VAN NISTA, Ltd., Linoleum	34
DORE, J., & CO., Stills	34	MELIN, C., & CO., Ampoules, Glassware	xxvii	VERNON & CO., Ltd., Surgical Dressings Lint	xxx
DRYSDALE, J. W., & SONS, Balsams, Chemicals	vi	MELLIN'S, Protein Preparations	xxvii	VERONA CHEMICAL CO., Thymol, Vanillin	xxi
DUNCAN, FLOCKHART & CO., Chloroform, Ethers, Bacterial Vaccines, Calenicals	11	MENDIT, Ltd., Cement	xxviii	VICHY CO., Mineral Waters	16
EASTERN DENTAL MFG. CO., Dental Goods	xxxii	MILLAR, A., & CO., Ltd., Orange Quinine Wine	xxviii	VISCOSE DEVELOPMENT CO., Ltd., Bottle Caps	7
EDWARDS' "HARLENE" LD., Hair Preparations	30	MILLARD BROS., Ltd., Electrical Novelties	xxviii	WALFORD & CO., Ltd., Baking Powders	xxxiii
ELLISON, H., Ltd., Disinfectants	xxxii	MILNE CO., F. H., REE, Ointments	xv	WARD & GOLDSTONE, Electrical Novelties	18
ELT'S COLLEGE, Educational	12	MONSANTO CHEMICAL WORKS, Glycerophosphates	Text 908	WARNE, W., & CO., Ltd., India-rubber Surgical Goods	xxx
ERABMIC CO., Ltd., Perfumery, Toilet Soaps	20	MUNN, W. A., Cod Liver Oil	Text 908	WASHINGTON CHEMICAL CO., Ltd., Magnesia & Salts	iv
ESSONA PERFUMERY CO., Toilet Articles	32	NEWBALL & MASON, Botanic Drugs, Herb Extracts	xxvi	WATFORD MANG. CO., Ltd., Summer Beverages	19
EVANS, ADLARD & CO., Filter Papers	16	NEWBERRY, P., & SONS, Ltd., Druggists' Sundries, Proprieties	31	WEST, T. SON, Perfumes	25
EVANS SONS LESCHER & WEBB, Ltd., Chemicals, Pharmaceutical, Druggists' Sundries, Serums, Insect Killer, Capsules, Lysol	13	NICHOLS, J., & SONS, Ltd., Chemicals	iv	WHIFFEN & SONS, Ltd., Emetine Salts, Quinine, &c.	ix
EWEN, J., & SONS, Lard	xxvi	NORTHERN COLLEGE OF PHARMACY	12	WHITE TAR COMPANY, Disinfectants	22
FABRA CO., Ltd., Chemicals	xv	NORTHERN TIN CANISTER WORKS	xxvii	WHITE, A., & SONS, Acids, Ethers, Technical Chemicals	vii
FARRIS, CHARLES, Beeswax, Spermaceti, White Oils	10	ORME, EVANS & CO., Ltd., Enam. Iron Hospital Requisites	xxvii	WILCOX, JOZEAU & CO., Continental Proprieties	Text 908
FIELD, C. W., Ltd., Saponine	32	PAINE & CO., Ltd., Malt Extracts	xxvii	WILLIAMS, DR. EVAN, Henna Shampoo	16
FINK, F., & CO., Gums	x	PARK, DAVID, & CO., Dentifrices, Packed Pharmaceuticals, Serums, Tablets	xxix	WILLIAMS, FRANCIS, BUTLER & THOMPSON, Ltd., Drug Grinders, Disinfectants, Foods	xxx
FLETCHER, FLETCHER & CO., Ltd., Liquors, Conc. Text 908	xxix	PELLIOT, HENRI, & CIE, Citric Acid	x	WOOD, V., Trusses, Crepe Bandages, Rubber Goods	xxii
FLOREY, HARTLEY, Chemicals	ix	PENICK, S. B., & CO., American Crude Drugs	vi	WOODWARD, W., Ltd., Gripe Water	xxvii
		PEXTON, CHATHAM, Photo Development	32	WRIGHT & CO., Oxygen Baths	xxx
				WRIGHT, LAYMAN & UMNEY, Ltd., Coal Tar Specialties	Cover
				YOULDON, E., Ltd., Medical Glassware	xxxii
				ZEAL, G. H., Clinical Thermometers	15
				ZIMMERMANN & CO. (Chemicals), Ltd., Chemicals	vi

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK

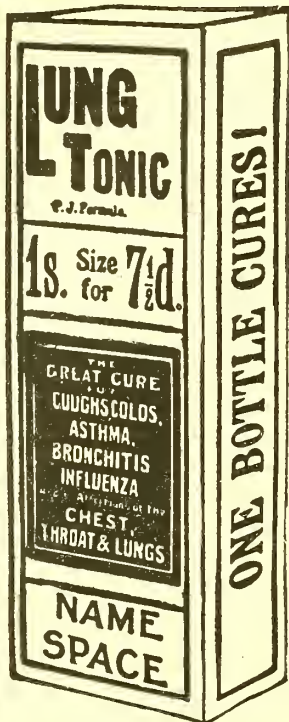
FRAME FOOD



ON P.A.T.A. LIST.

SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.



A PROFITABLE SPECIALITY

BEARING YOUR OWN NAME

LUNG TONIC

FREE Window Slips
FREE Showcards
FREE Delivery
FREE Packages
FREE Sample
NAME on Label
NAME on Carton

P. J. Form., therefore no stamps required. Known, admitted, and approved.

Profit over 100%, and nothing to do but hand it over the counter. Makes an effective Window Show. — Quick seller. Sure repeats. —

Two Sizes, selling at 7½d. and 1/3.

Write for new scale of prices according to quantity ordered.

Davies, Lewis & Co

Manufacturing Chemists, THE BRIDGE STREET, DERBY.

Apply for Prices for

PILLS, CAPSULES, TABLETS, AND OTHER OWN NAMED PACKED LINES.

HOOKER'S MALTED MILK

"A complete food." — *Lancet*.

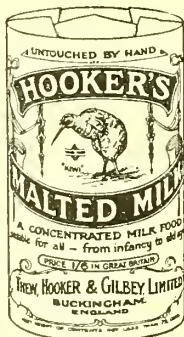
SELLS ENTIRELY ON MERIT.

There is no Higher Quality or Better Value

BRITISH MADE & BRITISH OWNED

DEMAND RAPIDLY INCREASING.

LARGE PROFITS TO SELLERS.



PRICES AND TERMS FROM

THEW, HOOKER & GILBEY, LTD., BUCKINGHAM.



THE FRENCH NATURAL MINERAL — WATER. — **VICHY-CÉLESTINS**

**DISORDERS of the LIVER, GOUT,
Diabetes, Rheumatism, Gravel, &c.**

VICHY-ÉTAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ÉTAT" and the name of the SOLE AGENTS: INGRAM & ROYLE, Ltd.; Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

PROPERTY OF THE FRENCH GOVERNMENT.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
— Manufacturing Chemists —

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A. Protected	Dozen
	Retail Price.	Net.
* LOSALL'S SALT (well advertised), tins	7½d.	5/-
* " " " " " "	1/2	10/-
* " " " " " " bottles in cartons	1/6	12/-

*** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.**

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema } 1/6 12/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.



Saint-Raphael

**Tonic, Restorative,
Digestive Wine.**

Known throughout the World and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children, and the Aged.

DOSE: One Wine-glass after the two principal Meals.

Recommended by—
PROF. BOUCHARDAT, Professor of Hygiene, Paris Faculty of Medicine.
DR. MACNAUGHTON JONES, London, England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Rostan, Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—DR. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome, FRANCE.

**To be obtained from all
Wholesale Druggists.**

THE GENUINE **LIEBIG'S** THE GENUINE **BEEF and MALT WINE**

CERTIFIED BY ANALYSIS AND GUARANTEED NON-EXCISABLE.

An
excellent
and
refreshing
drink with
Soda Water
.....

Does not
contain
Quinine

TO MEET

the requirements of all our Customers has always been our aim, and

THE DEMAND

for Liebig's Celebrated Production in a **Non-Excisable** form is now an accomplished fact. We therefore ask and hope to receive the support

OF THOUSANDS

of Customers who could not hitherto obtain the **Guaranteed Non-Excisable and Genuine**

LIEBIG'S BEEF & MALT WINES

Meets the requirements of the Liquor Control Board.

No Licence
required
to sell
this Wine
.....

Profit for
the Trade
averages
over

33 $\frac{1}{3}$ %

A trial order will be appreciated. Orders for £3 and upwards carriage paid. Ample supply of own name Circular Matter, Showcards & Window Bills free with each order.

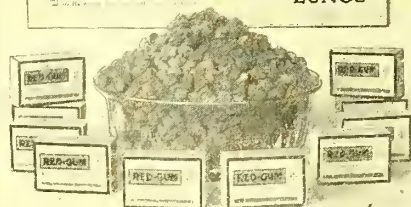
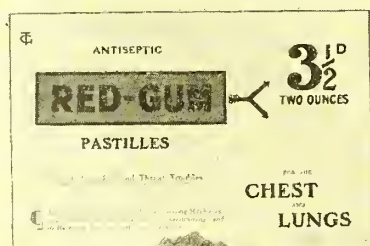
SOLE WHOLESALE AGENTS:

PREMIER DRUG CO. LTD., 29 Cannon St., MANCHESTER

IF YOU WANT A SMART ATTRACTIVE WINTER SPECIALITY

WRITE FOR SAMPLE AND PRICE OF OUR NEW LINE

RED GUM PASTILLES



NOTE

THESE

POINTS

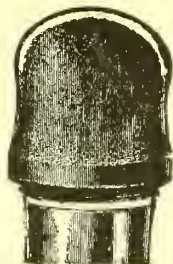
- AN EXCELLENT AND ATTRACTIVE CRYSTALLISED PASTILLE.
- PREPARED WITH A GUM-ARABIC BASE, ARE BOTH PALATABLE AND EFFICACIOUS.
- HANDSOME SHOWCARDS AND CARTONS SUPPLIED FREE.
- PACKED IN TINS OR SHOW JARS, MAKING A SMART ATTRACTIVE WINDOW DISPLAY.
- SHOW A 100% MINIMUM PROFIT.

T. GUEST & CO.,

LIMITED.

Carruthers Street, Ancoats, Manchester.

GATES' BOTTLE CAPPING SKINS.



SNOW-WHITE OPAQUE BAUDRUCHE SKINS.

ABSOLUTELY AS OPAQUE as Split Skins and equal in appearance

ALSO

TRANSPARENT BAUDRUCHE and WHITE SPLIT SKINS.

GOLD-BEATERS SKIN for Medical Purposes cut to any sizes ; Ordinary and Waterproof.

" Mine beat all others."



Only English Manufacturer—

LESLIE GATES,
3 Nightingale Rd.,
Clapton, N.E.

Telegraphic Address :
"Englishism, Lowclap, London."
Telephone : Dalston 1207.

Quick Sellers that yield Large Profits!

Peach Bloom Face Powder in three tints :—

2/- per dozen.
6 dozen lots 1/9
P.A.T.A. 3½d.

Whitecross Tooth Powder, two sizes :—

Small :—3/- per dozen.
3 dozen ... 2/9
6 " ... 2/6
1 gross ... 27/-

Large :—4/- per dozen.

3 dozen ... 3/9
6 " ... 3/6
1 gross ... 39/-

Formalin and Mint Tooth Paste, each in a carton,

Thymol Tooth Paste, each in a carton, 4/- per dozen.

Foot Powder, in dredger tins bearing illustration of a soldier ... 1/10 and 3/6 per dozen.

Solidified Brilliantine in collapsible tubes, half dozen on card ... 3/- per dozen.

Violet Cold Cream, each in a carton, 2/- dozen.

Special "M" Cold Cream in bulk :—

9d. per lb.
28 lb. lots 8d.
56 " " 7½d.

Special quotations for quantity.

Bay Rum :—2 oz. 3/3 ; 4 oz. 6/-

These are a selected few out of many lines we can now supply.

Shirley Brothers, Ltd., Whitecross Works,
LONDON, S.E.

RUSSIAN LIQUID PARAFFIN

B.P. 1914

PETROLEUM JELLY

B.P.

ALSO TECHNICAL, WHITE & AMBER.

BRILLIANTINE OILS

ODOURLESS, WHITE, HALF-WHITE & GREEN.

HALIFLOR OIL OF PERFUME

FOR SCENTING BRILLIANTINE & HAIR OILS, &c. &c.

HALIFLOR FLORAL ESSENCES

FOR MAKING PERFUMES, AND PERFUMING TOILET PREPARATIONS AND SOAPS.

JENSEN'S NORWEGIAN COD LIVER OIL

HERTZ'S PERFECT INHALER

FOR NASAL CATARRH AND ASTHMA.

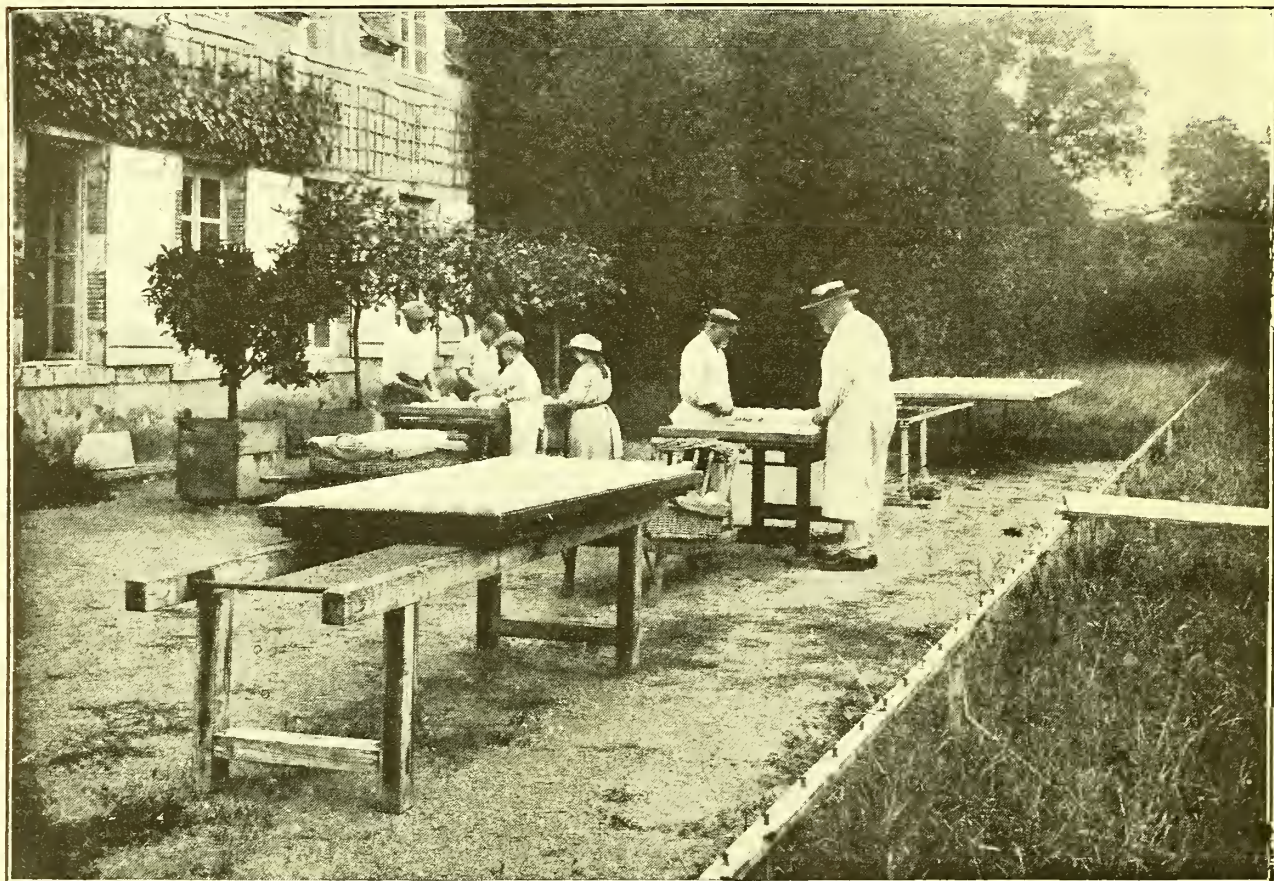
SAMPLES AND PRICES FROM

HERTZ & CO., 9 MINCING LANE, E.C.

ALL-BRITISH FIRM.

Farris's Genuine Air Bleached White Beeswax.

CELEBRATED FOR EXCELLENCE AND PURITY NEARLY THREE-QUARTERS OF A CENTURY.



FARRIS'S PROCESS No. 6.—THE WHITE BEESWAX MADE INTO DISCS AND PLACED ON EDGE ON WIRE NETTING TRAYS TO DRY AND CONTINUE BLEACHING.

PURE ENGLISH REFINED SPERMACETI, Paraffin Wax, Ceresine, Stearic Acid, Pure Olive Oil, Castor Oil, Palm Oil, Peach Kernel Oil, Cod Liver Oil, Slab Oil, 'Farrisol' Paraffinum Liquidum B.P., 'Farrisol' Snow White Opaque Jelly, B.P., Lanoline, White Oils, &c. Oil Refiner to H.M. Government.

GENUINE YELLOW BEESWAX in $\frac{1}{2}$ oz., 1 oz., 2 oz., and 4 oz. Rounds.

WAXES of EVERY KNOWN KIND.



SAMPLES MATCHED AND LOWEST PRICES SUBMITTED.



WAXES PREPARED FOR SPECIAL PURPOSES.

The only actual Manufacturing Wax Chandler in the City of London.

CHARLES FARRIS, 71 Bishopsgate, London, E.C.

Works: HELMET COURT, BISHOPSGATE, E.C.

Warehouses and Stores: 91 & 93 BISHOPSGATE, and 12 WORMWOOD STREET, E.C.

Telephones: LONDON WALL 9397 and 9398.

Telegrams: "WAXINESS, LED, LONDON."

Maw's

S MAW, SON & SONS
(GPO BOX N° 541)
7-12 ALDERSGATE ST
LONDON E.C.

Page

NUMBER 254

AUG. 26, 1916

HOURS OF BUSINESS: 8.30 a.m. - 5.30 p.m. CLOSE AT 1 p.m. SATURDAYS.



WE recently secured the services of this lady to photographically demonstrate the advantages of an entirely new toilet requisite for which we predict phenomenal sales; and for which we are preparing a unique distribution scheme.

In an early number of "Maw's Page" we hope to put full details before our customers.

A Discovery

"I hadn't the least idea that you specialised so much in that kind of thing. . . I didn't know you went out of your way over such things as dressings and bandages!"

The speaker (a new customer) continued: "If I required a leech aquarium or an artificial nose I should certainly write to Maw's for them; but it would never have occurred to me to associate your name with dressings and bandages. . . . I thought you handled them merely in a general way. . . . and I learn that you have a whole department devoted to this important section of medical supplies."

That customer is now a wiser (and incidentally happier) man. He has been to the topmost height of the House of Maw. In this airy department the customer saw the large store room where shelves and shelves of bandages and dressings of all descriptions are temporarily housed; a vista of the familiar blue, yellow-

Vel-fin RUBBER SHEETINGS

We still have a good supply on hand of sample cards of these standard rubber sheetings. They are made in a series of three varieties: "Single-faced drab," "double-faced drab," and "Special red," and there are four qualities to each variety (twelve in all). "Vel-fin" Rubber Sheetings will not harden, crack or discolour, and they can be sterilized in boiling water. Each piece is

acid, alkali, urine, blood and ether proof.

Prices from 2/3 to 6/8 per yard. Samples are ready for you.



For Soldiers, Tourists, and Workers. Prices (Ladies and Gents), 4/- pair. Half-lengths: Ladies 3/3 pair. Gents 3/9 pair. Stock sizes.

labelled packets containing an aggregate of miles of materials. He has seen the offices, and the warehouse stocked to the ceiling with reserve supplies. He learnt many things about quality as we understand and act upon.

Cheap dressings are not really economical in use because they do not go so far. Common dusty wool has to be used in far larger quantities than a wool with a good long staple; cheap gauzes have far less yarn in them and therefore more is required to make up a good pad. A pound of common lint does not contain the same number of yards of material as a pound of better quality, and therefore although it may cost less a smaller quantity of material is obtained. . . .

And so on. Our expert knowledge is at your service upon all such matters.

Capsule



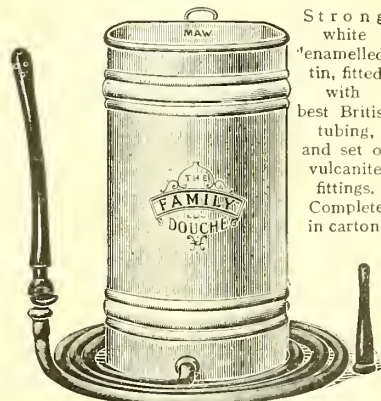
HOUSANDS of homes believe in the hot water bottle habit.

It can be further cultivated by a display of "Parex" (Reg.) Hot Water Bottles. Prices on request.

CHEAP: & BRITISH MADE

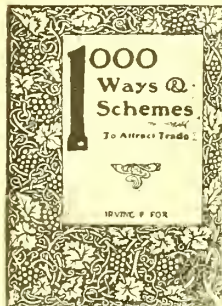
MAW'S "FAMILY" DOUCHE

A quality	2 pt.	3 pt.	4 pt.
Grey tubing	41/6	44/6	46/- doz.
B quality			
Red or Black tubing	35/6	38/6	40/- doz.



Strong white "enamelled tin, fitted with best British tubing, and set of vulcanite fittings. Complete in carton.

BOOKS for PHARMACISTS



1000 WAYS AND SCHEMES TO ATTRACT TRADE.—This book is the result of over five years of observation and labour, and describes more than a thousand ideas that druggists and other tradesmen have successfully put into practice to increase their sales. Many of them have transformed losing businesses into profitable ones. Almost any one of them will bring you larger business and give you a bigger income. 208 pages 9½ x 7, and 120 illustrations. Printed on the best of white paper, and bound in handsomely ornamented cover. Third edition. Price, post paid, 4s.; with THE SPATULA 1 year, 8s.

ONE THOUSAND FORMULAS.—A compilation giving the practical working druggist full information about the making of one thousand of the most common and saleable preparations, by L. W. Marshall. Price 3s.; with THE SPATULA 1 year, 7s.

SPATULA VETERINARY FORMULARY.—A collection of practical formulas for all diseases common among horses, cattle, swine, poultry, and dogs, by L. W. Marshall. 2s.; with THE SPATULA 1 year, 6s.

TOILET PREPARATIONS.—A treatise on the manufacture of Casein Massage Creams, Complexion Creams, Cold Creams and Face Creams; Powders, Toilet Lotions, Camphor Ices, Bath Tablets, and other similar preparations, including hundreds of the latest and best formulas. Compiled and edited by L. W. Marshall. Price, post paid, 2s.; with THE SPATULA 1 year, 6s.

SHOW WINDOW BACKGROUNDS.—By George J. Cowan. The most useful book on the subject ever published. Every design drawn in such a way that any one can follow out the idea. 250 pages, 200 illustrations. Price, post paid, 7s.; with THE SPATULA 1 year, 8s.

SPATULA SODA-WATER GUIDE.—Fourth Edition. Entirely rewritten and brought right up to date. Nearly 2,000 formulas and subjects. Standard American authority on all kinds of fountain drinks. 4s.; with THE SPATULA 1 year, 8s.

HOW TO MAKE TABLETS.—By Frank Edel. A treatise on the manufacture by retail druggists of all kinds of Compressed Tablets, together with a large number of practical formulas. 1s.; with THE SPATULA 1 year, 6s.

15,000 FORMULAS.—A new and revised edition of the "Cyclopedia of Receipts." By A. A. Hopkins, Query Editor of the *Scientific American*. Probably the most practical and valuable collection of formulas and receipts ever published. Besides the receipts there is a vast amount of information on various subjects. 8 pp. illustrated circular giving contents free. Price 21s.; with THE SPATULA 1 year, 23s.

PRICELESS RECIPES.—3,000 secrets, 368 pages. A book of recipes, and nothing but recipes. Not a cook book. Silk cloth finish. Post paid, 3s.; with THE SPATULA 1 year, 7s.

300 READY-TO-USE ADS. FOR DRUGGISTS.—By Chas. L. Archbold and other experts. Something for every department and every season. Nearly all have each an appropriate illustration which may be used or not as desired. So arranged that they may be cut out as needed and sent to your local paper, or to your printer as copy for counter slips. Price, post paid, 4s.; with THE SPATULA 1 year, 8s.

SPATULA CUT CATALOGUE.—14th edition. The best collection of half-tone and line cuts for advertising and illustrating purposes in the world. Thousands of beautiful illustrations. Price 2s.; with THE SPATULA 1 year, 6s.

THE SPATULA BEAUTY BOOK.—Full-page half-tone pictures from photographs of sixty-five of the handsomest women in the world. Printed in monotone on the best 120-lb. coated paper. Price, post paid, 1s. 6d.; with THE SPATULA 1 year, 6s.



FREE.—We will send to any Chemist and Druggist in any part of the world, sending us 5d. in postage stamps, a sample copy of THE SPATULA, one of the handsomest and most practical drug journals published, full of American vim and push, a 16-page illustrated catalogue of pharmaceutical wares and a large picture in colours of the Spatula Soda-Water Girl.

(Cheques on local Banks in Great Britain accepted.)

Make Post Office Money Orders payable to
IRVING P. FOX, Treasurer.

The SPATULA, 14 Sudbury Building, Boston, Mass.

ELT'S COLLEGE

North Finchley, London, N.

A Special Laboratory is provided for

LADY STUDENTS

training for "Hall" and Minor.

The Five Laboratories and Lecture Rooms are magnificently furnished with modern Apparatus for the study of Pharmacy, and the instruction is on the lines of the great modern Universities.

BIRMINGHAM & MIDLAND

COLLEGE OF CHEMISTRY,
PHARMACY AND BOTANY,

45 NEWHALL STREET, BIRMINGHAM.

Principal—C. L. SCOTT, Pharmaceutical Chemist.

A short Special Course for the
October Examination began on
August 21.

Next Term begins on October 3, when the
Evening Classes resume.

Full Particulars will be sent on Application.

The Northern College of Pharmacy

BURLINGTON STREET, MANCHESTER, S.W.

Principal - E. GOWER BRYANT, F.C.S.

Tutor for Lady Students for the Apothecaries' Hall—Miss E. ROSE, M.P.S.

COURSES FOR THE MINOR COMMENCE:

Full Time: September 4, 1916.

Part Time: September 5 & 6, 1916.

Revision for October Examination: August 21.

A Course for the Apothecaries' Hall Examination commenced
on August 24.

All particulars will be sent Post Free on Application.
Telephone: CITY 7698.

THE MANCHESTER MUNICIPAL SCHOOL OF TECHNOLOGY

Principal: J. C. M. GARNETT, M.A. (late Fellow of Trinity College, Cambridge).

The Session 1916-17 will open on September 18th.

The Prospectus of Part-Time Courses in Chemistry and Chemical Technology, forwarded free on application, contains particulars of a SPECIAL COURSE which has been arranged for

STUDENTS OF PHARMACEUTICS.

This Course, which prepares Students for the Minor Examination of the Pharmaceutical Society of Great Britain, is held on Wednesdays and extends over two years.

The First Year Course of Study is arranged to prepare Students for the Examination for the Manchester Pharmaceutical Association Scholarship which is held on the third Tuesday in June.

Liverpool School of Pharmacy.

Recommended by the LIVERPOOL CHEMISTS' ASSOCIATION.
PRINCIPAL, H. HUMPHREYS JONES, Ph.C., F.C.S.

FULL TIME CLASSES.

Revision Course for the October Examination August 16
Minor Course for Jan. & April Examinations Sept. 12
Apothecaries' Hall Examination August 16

PART TIME CLASSES.

Held on **Tuesdays and Wednesdays** (3 to 10 P.M.), commencing Sept. 12 and 13 respectively. A full course of instruction is given in "**Minor**" Subjects, Practical and Theoretical. The whole Syllabus is covered during the Session **Sept.-June**. Scholarships, free of charge, entitling their holders to a full course of instruction are offered to **Part-time** Students who have attended the whole Session.

Write for Syllabus, which contains valuable information in the form of Volumetric Equations, Thermometric Data, % Calculations, &c., Post Free, from

The Principal, 18 COLQUITT STREET.

BATH & WEST OF ENGLAND

College of Chemistry & Pharmacy.

Principal: DAVID J. WILLIAMS, Ph.C., F.C.S. (Silver Medallist)

DAY CLASSES.

MINOR, MAJOR, and APOTH. HALL.

NEW TERMS: { MINOR REVISION COURSE ... Aug. 21.
SPECIAL MINOR COURSE ... Sept. 6.
APOTHECARIES' HALL COURSE Aug. 21 & Nov. 1.
SEPARATE CLASSES FOR LADIES.

CORRESPONDENCE COURSES—Minor, Major, Prelim., Apothecaries' Hall and Scholarships.

FAIRCHILD SCHOLARSHIP EXAMS.

RECENT RESULTS. { 1915 { Mr. J. C. DAVIES—Welsh Prize, £5.
Second on List for Great Britain.
Mr. A. V. DAY—English Prize, £5.
£165 already won by Students of this College.

The Secretary, BATH COLLEGE OF PHARMACY, 6 Cleveland Place East, BATH.

UNIVERSITY OF BRISTOL.

The following Prospectuses will be forwarded free on application:—

FACULTY OF ARTS, INCLUDING THEOLOGY.

FACULTY OF SCIENCE.

FACULTY OF MEDICINE, MEDICINE AND SURGERY.

DENTAL SURGERY, PUBLIC HEALTH.

FACULTY OF ENGINEERING, CIVIL, MECHANICAL.

ELECTRICAL, AUTOMOBILE.

ELEMENTARY TRAINING DEPARTMENT. Men; Women.

TESTAMUR COURSES.

EVENING CLASSES.

HALLS OF RESIDENCE.

Calendar, 1s. (post free, 1s. 5d.) Matriculation Examination Papers and School Certificate Examination Papers, post free, 6d. per set.

ATHLETICS.—The University Athletic Ground is 12 acres in extent. Provision is made for Cricket, Football, Hockey and Tennis.

The AUTUMN TERM in the FACULTIES OF ARTS, SCIENCE AND MEDICINE will commence on October 3, and that in the FACULTY OF ENGINEERING on September 19, 1916.

CHEMICAL DEPARTMENT.

Alfred Capper Pass Professor of Chemistry:—

FRANCIS FRANCIS, D.Sc. Victoria, Ph.D. Erlangen, F.I.C.

Special provision is made for advanced work and investigations in Physical Chemistry, Agricultural Chemistry, Bio-Chemistry, Bacteriological Chemistry, Hygienic Chemistry, and Electro-Metallurgy. Currents are available of voltages from 500 downwards, and of amperage up to 2.60.

Training received in other Institutions, and Degrees of any approved University are counted towards the period of study required for all Bristol Degrees.

Prospectuses of the FACULTIES of ARTS, SCIENCE, MEDICINE and ENGINEERING and further particulars may be obtained on application.

JAMES RAFTER, M.A., Registrar.

MEDICINE
PHARMACY

EVANS' JOURNAL

THERAPY
BACTERIOLOGY

July Issue. Vol. II, No. 3, is now ready and contains articles on:—

The Technique of the Simpler Methods of Bacteriological Diagnosis (cont.)
Hormones (continued). Colloids in Medicine (continued).

The Blood Picture in Pernicious Anæmia, Leukæmia, etc. (continued).
French and English Salvarsan Preparations.

Notes on Cases treated at a School Clinique (continued).

The present position of the Cancer problem.

A copy will be sent gratis to any Pharmacist on application.

EVANS SONS LESCHER & WEBB, Ltd.
LIVERPOOL and LONDON

A FEW MORE FACTS

For the Optician who Knows his Business.

THERE is a great need at the present time for practical Economy!

YOU are economising! But is your economy practical and profitable?

DOES your study of economics include a thought for the future as well as the present.

DO you realise that the chance customer of to-day should be a source of income to you in succeeding years as well as at the present time, either by means of his direct purchases, or through his recommendation to friends?

YOUR future income depends upon the quality of the goods you supply to-day, and the resultant satisfaction, or otherwise, of your present clients!

THEREFORE, a few coppers saved by the purchase of cheap quality frames or other goods, will probably rebound in the form of many pounds lost through the medium of a dissatisfied clientele.

This is not profitable Economy.

IT is because we realise this and moreover believe it, that we do not offer to you cheap priced goods of dubious quality, but only goods of **Guaranteed Quality**.

BY the way, touching on Rolled Gold, has it occurred to you that 1/10th 10ct., or any other fractional denomination of quality, is no indication whatever of the value of that particular frame, as a whole lot depends on the manufacturing methods employed, and a whole lot more on the weight of the frame? This is well worth remembering when comparing prices.

Economise profitably by purchasing only **Guaranteed Goods** such as:-

The "STANDWEAR" Mounting (Finger-Piece) in Rolled Gold and Solid Gold.

The "CHALLENGE" Mounting (Finger-Piece) in Rolled Gold.

The "STANDARD" Eyeglass Mounting in Steel, Rolled Gold and Solid Gold.

The "STANDARD" Eyeglass Frame in Steel, Rolled Gold and Solid Gold.

The "STOCO" Rimless Spectacle Mounting in Rolled Gold and Solid Gold.

The "STANDWEAR" Rimless Spectacle (with Solid Gold Nose Pads and Comfort Temples) in Rolled Gold only. (UNIQUE AND EXCLUSIVE DESIGN.)

"STOCO" Rolled Gold Cable and Straightside Frames. Guaranteed for 5, 10, 15, 20 and 25 years.

"STOCO" Rolled Gold Oval Bar Astigs. Guaranteed for 5, 10, 15, 20 and 25 Years.

"SILVALINE" (Registered). Our Special White Metal Alloy. Cable Side, Straightside and Astig. Frames.

"STOCO" OPTICAL MACHINERY. The merits of which are well known.

"FARRINGTON" SPECTACLE CASES. For which we are the Sole Agents.

"STURDY" EYEGLASS CHAINS, in Rolled Gold and Solid Gold.

LENSES: Large stocks of Edged and Uncut always on hand at **RIGHT PRICES**.
PRESCRIPTION SERVICE.

STANDARD OPTICAL CO., Limited,
59-62 Hatton Garden — LONDON, E.C.

Factory—GENEVA, NEW YORK, U.S.A.

Telephone: 3060 Holborn (2 lines).

Telegraphic Address: "Safability."

PERFECT PHOTOGRAPHIC EMULSIONS
depend on the purity of their
ingredients.

NITRATE SILVER

is the most important of these, and
it happens also to be very sensitive
to contamination.

A wide margin of safety has there-
fore always been our principle in
manufacturing it. Firstly, throughout
the whole of our processes we use
exclusively vessels made of Gold and
Platinum. Secondly, all our first
crystals are twice redissolved and
recrystallised. Thirdly, every batch
of final crystals is tested before
passing into our stock.

Our guarantee of highest purity is
thus assured.

Competitive Quotations on request.
Mark indents "Johnson, Matthey's."

None genuine if not labelled with
our name and Trade Mark.

Cables—"MATTHEY LONDON"
(all Codes used).

Telephone—9740 CITY (6 lines).

JOHNSON
MATTHEY & CO^{LD}

MELTERS & ASSAYERS TO
THE BANK OF ENGLAND
74 & 81 HATTON GARDEN
LONDON E.C.



Do You Sell

Sister Lauras Food?



The question is often asked nowadays.
The Chemist who does not stock Sister
Lauras Food is missing a good line.

Sister Lauras Food is achieving great
success as a preparation for weakly
babes and for invalids and the aged.

It makes milk digestible and is inval-
uable in cases of malnutrition.

It is a thoroughly reliable line and one
that brings a handsome return.

Price 1/- & 2/6 per tin. Samples and advertising matter free on application.
SISTER LAURAS INFANT FOOD CO., Ltd., 156 Vincent Street, GLASGOW.

ZEAL'S REGISTERED

Clinical Thermometer The "REPELLO"

Requires no shaking down.

Guaranteed Accurate.

A 30-Second Pushed back
in an instant.

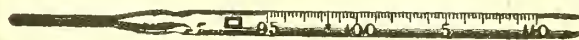
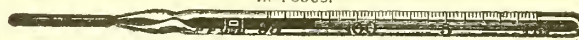
Good
Selling
Lines for
Chemists



NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying
Clinical Thermometer on the Market.

IN FOCUS.



OUT OF FOCUS.

The square mark engraved on lens front
locates the Mercury Column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.

SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.

G. H. ZEAL, 82 Turnmill St., LONDON, E.C.

Wholesale Manufacturer of

CLINICAL THERMOMETERS.

A SELECTION OF 50 KINDS.

Established 1888.

LIST POST FREE.

Telephone No.
12438 Central.

HONEY! HONEY!

"JOYBELLS" HONEY.

The choicest and most delicious honey procurable. Screw-top
Glass Jars, 9s. 9d. and 5s. 9d. per doz.

"JOYBELLS" HONEY. Red Earthenware Pots, 9s. 3d. and 5s. 3d.
per doz.; in Bulk, 8½d. per lb. Tins charged and returnable.

The Institute of Hygiene state: "We are satisfied that 'Joybells' Honey
is a genuine product, possesses the distinctive flavour imparted to
bee honey, and is a most pleasant and wholesome article for
general table use."

"SUMMERLAND" HONEY.

Equals that usually sold as Finest Clover Honey. Screw-top
Glass Jars, 8s. 9d. and 5s. 6d. per doz. In Bulk, 7½d. per lb.

"SWEET FLOWER BELL" HONEY.

Fine Quality. Clean Flavour. Tie-Over Red Earthenware Pots,
7s. 9d. and 4s. 9d. per doz. In Bulk, 6½d. per lb.

BEESWAX. Choice quality, 1s. 8d. per lb.; 1-oz. Moulds, 1s. 6d.
per doz.

Carriage paid anywhere in England on orders of £2 value. Samples 3d.
STANDARD HEALTH FOOD COMPANY

(With which is incorporated The Berkshire Honey Co.)
Honey Specialists. **READING, BERKS.**

TELEPHONE: 319 EAST.

BIRKETT & BIRKETT,
189 East India Dock Road, Poplar, E.
(Directly opposite N.L.R. Station.)

DENTISTRY.

Manufacturing & Dental Surgery.

Dentistry for Pharmacists.

The majority of Pharmacists of the present day have been afraid
of Dentistry, mainly for the reason that their artificial work supplied
has not given their customers satisfaction, not through the fault of
the manufacturer of the artificial teeth, but because of the lack of
knowledge of the Pharmacist not being initiated into the rudiments
of fitting. It is our business to overcome that difficulty. Provided
the Pharmacist has not the necessary knowledge, we will undertake
to take impressions at his shop, quote his customer, and on the com-
pletion of the order give the Pharmacist 25 per cent. of the fee
obtained; but where the Pharmacist has the requisite knowledge, he
will find that by perusing the price list our prices are lower than any
others in the trade.

Our services and advice are always at your command, whether a
trade order or an order on commission. If we think a bite or an
impression is faulty, we tell you so before proceeding with the work.
On your first inquiry kindly give us a trial, and on that trial you will
find that you will have a recommendation from a satisfied customer.

BIRKETT & BIRKETT.

N.B.—We study punctuality! We have a motor service for
immediate commission calls.

'Postlip'

ENGLISH FILTER PAPERS

Manufactured in annually increasing quantities for upwards of 50 years.
All sizes in Squares and Circles.
Rolls made to order.

**SEVERAL NEW GRADES ARE
NOW SUCCESSFULLY REPLACING
THE BEST GERMAN MAKES.**

See our Inset in *The Chemist and Druggist* of January 29, 1916, for Samples of English Filtering Papers and report of Tests made by the National Physical Laboratory.

Evans, Adlard & Co., Ltd.
POSTLIP MILLS, WINCHCOMBE.

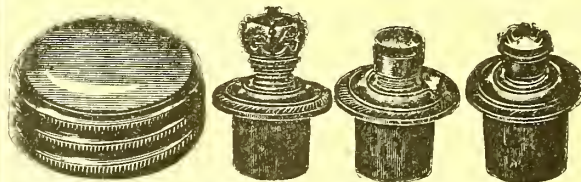
From
END - TO - END
of the Kingdom

SEMREH

BOTTLE CAPS

are saving time and labour. They are self-fixing.
Do you use them?

The **VISCOSE**
Development Co. Ltd.
BROMLEY, KENT.



BROOKS, PEEL & CO., LTD.

Makers of Collapsible Tubes and Filling Machines for same. Patentees of Sprinkler and other Stoppers for Perfumes, Washes, &c. Screw Caps.

24 City Road, Finsbury Square, London, E.C.



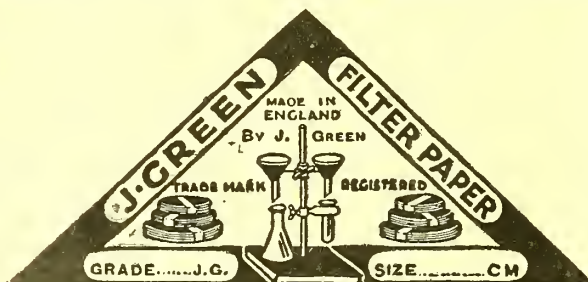
J. BARCHAM GREEN & SON,
Hayle Mill - Maidstone, Kent.

Makers of Filter Papers to replace the German Nos. 595, 597, 598, 602, 604, etc.

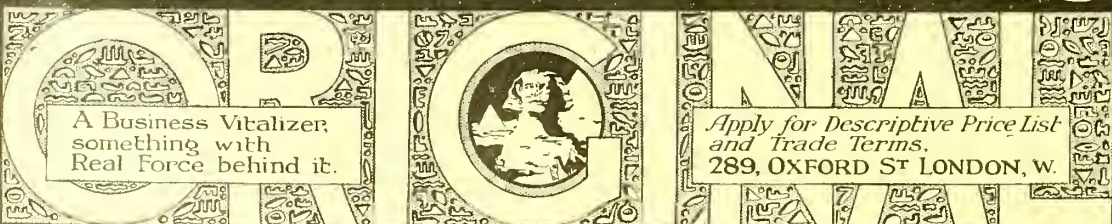
also

**Soxhlet Thimbles,
Drying Trays,
Drop Reaction Papers,
Filter Pulp, etc.**

Samples and Price Lists can be obtained from the principal Laboratory Furnishers.



DR EVAN WILLIAMS'



A Business Vitalizer,
something with
Real Force behind it.

Apply for Descriptive Price List
and Trade Terms.
289, OXFORD ST LONDON, W.

HENNA SHAMPOO



Whatman Filter Papers are British

TESTS have proved their high quality for careful and accurate work. Use Nos. 1-5 for general filter purposes; the remainder are Acid Extracted Grades.

No. 1.

For general quantitative and qualitative work. Retains Barium Sulphate. Equivalent to C. S. & S. 595.

No. 2.

Similar to the No. 1, made slightly heavier. Rapidly filters fine precipitates. Leaves clear, bright filtrate. Equivalent to C. S. & S. 597.

No. 3.

A still heavier paper adapted to pressure and vacuum filtration. Filters fairly fast, yet retains fine precipitates. Equivalent to C. S. & S. 598.

No. 4.

Very soft, open in texture. Rapidly and perfectly filters fruit juices, syrups, oils, varnishes, etc. Equivalent to C. S. & S. 604.

No. 5.

A specially hardened paper of great purity. Very strong and retains finest precipitates. Equivalent to C. S. & S. 602.

No. 30.

Hydrochloric acid treated. Low ash, close texture. For quantitative work. Equivalent to DREVERHOFF 207.

No. 40.

A paper treated by both Hydrochloric and Hydrofluoric acids. Has less ash than No. 30. For very accurate quantitative work. Retains finest precipitates. Equivalent to C. S. & S. 589 (White Ribbon).

No. 41.

Treated same as No. 40 but more open and filters more quickly. Not recommended for filtering very fine precipitates unless properly precipitated. Equivalent to C. S. & S. 589 (Black Ribbon).

No. 42.

A new grade, resembling Nos. 40 and 41 in chemical qualities, but differing in its physical properties, being much harder and extremely close in texture. Suitable for use in filter pumps. Equivalent to C. S. & S. 589 (Blue Ribbon).

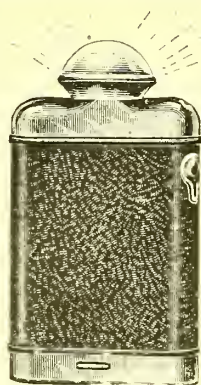
Nos. 43 and 50, also Folded Filters and Fat Extraction Thimbles will be out shortly.

WHATMAN

High Grade **FILTER PAPERS**

In the event of difficulty in obtaining supplies or free samples write to Sole Representatives:

H. REEVE, ANGEL & CO., 15 NEW BRIDGE STREET, LONDON, E.C.

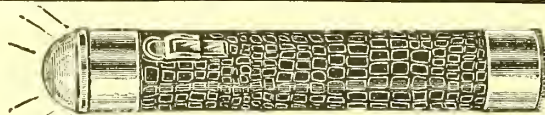


SPECIAL No. 307. British Made Pocket Lamp Case complete with 3-in. Lens, Battery and Metal Filament Bulb

per doz.
12 9
net.

The following prices are per dozen net, and include reliable Batteries and special Tungstire Metal Filament Bulbs.

Complete with Refills and Best Bulbs. DESCRIPTION.	1½ lens.		1½ lens.	
	No.	Dz.	No.	Dz.
Popular quality, assorted covers, polished fittings ..	310	17/9	903	18/9
Medium quality, leatherette covers, nickelled fittings ..	325	19/9	905	20/9
Superior quality, in best leatherette covering, heavily nickelled	324	26/-	904	28/-
De Luxe quality, real leather covering, and heavily nickelled	423	33/-	S20	37/-



- No. 11—**THE "MAJOR" TORCH**, as illustrated.
Size, 9½ × 1½ ins., complete with bulb and battery, 6/3 each net.
Also supplied with real leather covering, De Luxe model, complete, 9/6 each net.
Best quality Refills, 7 × 1¼ ins., 1/6 each net.
- No. 41—**THE "KIT" TORCH**. Similar to above but shorter, to take a 2-cell battery; most portable and convenient; quite reliable for export. Size 7 × 1½ ins., complete, 5/6 each net. Best quality Refills, 4½ × 1¼ ins., 1/3 each net.
- No. 24—**THE "OFFICER" TORCH**. High-class Inspection Torch, similar to the "Major," but with most powerful reflector and 2½ in. lens.
Size, 10½ × 1½ ins., complete, 7/9 each net.
Best quality Refills, 7 × 1¼ ins., 1/6 each. Spare Bulbs, -/6 each net.



THE "TROPHY" TORCH.
A full-size Torch of Remarkable Value.
No. N21/42, size 9 in. long, complete with 3-cell battery and bulb, 4/- net.

THE "CLIPLITE" TORCH, as above, but 6½ in. long. Complete, 3/- net.



THE "DUCHESS" WAISTCOAT POCKET ELECTRIC LAMP.

Most reliable. Fitted with bull's-eye lens, heavily nickelled caps. Recommended for Export. Complete with Refill and Bulb. Price 30/- doz. net.



POCKET LAMP DRY BATTERIES.

British Manufacture. Made of the finest chemicals and finished by a special process to ensure maximum life. Supplied to H.M. War Office.

"VOLEX REFILL."
Highest grade. Net Trade Price, 6/- doz.

MEDICAL COILS.



Superior finish, with highly polished nickel mounts, powerful coil, complete with handles and regulating tubes (as illustration). No. 4/261. Price 24/9.

Large variety in all qualities.
Net Trade Price from 3/- upwards.

Ward & Goldstone
SALFORD MANCHESTER

Write for Lists—(Box 14), Sampson Works, SALFORD, MANCHESTER.
Phone: 7083-6 Central. Tel.: "Multum Manchester"

BOLDO
DRIED LEAVES—
FINE GREEN COLOUR

Available at LONDON

GIGNOUX FRÈRES & CO.,
Import Merchants,
DÉGINES, near LYONS,
France.

The
CHEMIST & DRUGGIST
Diary, 1917



WILL go to press somewhat earlier this year, and the work of revision has already commenced. We ask advertisers to assist us with their friendly co-operation in the matter of advertisements by forwarding copy and instructions without delay to the Publisher:—

42 Cannon St., London, E.C.

Telephone:
Central 3617 (3 lines).

Telegrams:
"Chemicus, Cannon, London."

SAVE 3/- PER GALLON BY BUYING GUARANTEED GENUINE NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL OF 1916 MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

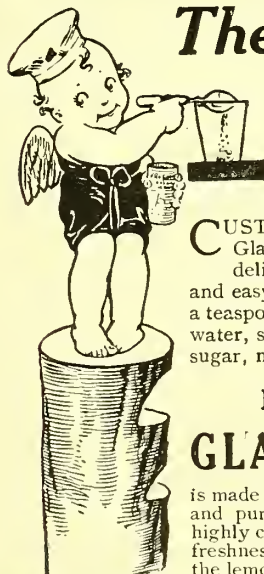
JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.



The top-notch SUMMER DRINK

CUSTOMERS ask for Freemans Glass-Lemon because it is so delicious, refreshing, economical and easy to make. You simply put a teaspoonful into a tumbler, fill with water, stir, and there you are. No sugar, no hot water, no bother.

FREEMANS GLASS - LEMON

is made from the finest Messina lemons and pure cane sugar, reduced to a highly concentrated powder full of the freshness and revivifying qualities of the lemons. A ready seller that customers recommend. Profit by its thriftiness and thrive upon its profits.

NO ADDED
SUGAR
NECESSARY.

Full particulars from
**THE WATFORD MFG.
CO., LTD.**

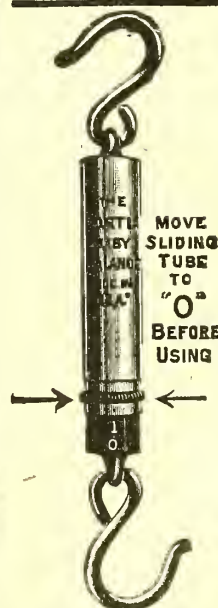
Proprietors of Freemans
Table Dainties, Vi-Cocoa
& Boisseliers (Boy-sel-e-a)
Chocolates.

VICTORIA WORKS, WATFORD.

To retail in 7½d., 1/3,
2 6, and 10/- Canisters.

Freemans
TABLE DELICACIES
Watford

A Profitable Seller



THE "PORTIA"

(Regd.)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price	Retail
11/6	1/6
dozen.	each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

SOLPORT BROS.,
184 to 190 Goswell Rd., London, E.C.

Obtainable through all Wholesale Houses.



KINSOL

(Regd.)

MEDICATED TOILET SOAP.

**KINSOL gives entire satisfaction.
GOOD PROFITS. No Cutting.
Display offer. Showcards supplied.**

Price and Sample on Application.

"ERASMIC," Perfumers, WARRINGTON.

A powerful antiseptic and deodorant.

"PETAL DUST" REGD.

The greatest of all floral air-purifiers.

A concentrated combination of the choicest flowers, aromatic herbs and roots, with the rare spices and gums of Arabia. "PETAL DUST" has been the favourite perfume of all classes for over half a century and still commands the largest sale of any dried perfume in the world.

Retails in 3d. and 6d. packets

Attractive Showcards, Counter Bills, etc., with customer's name and address on each packet, for orders of 5 gross and upwards.

SOLE PROPRIETORS—

**THE ROSMARINE MANUFACTURING COMPANY,
STAMFORD STREET, LONDON, S.E.**

CITY DEPOT: H. C. QUELCH & CO., LUDGATE SQUARE, LONDON, E.C.



Bright and Soluble

SCALE PREPARATIONS

Answering to all B.P. requirements.

IRON & AMMONIUM CITRATE
IRON & QUININE CITRATE

Samples and Prices
to all
Wholesale Buyers.

STAFFORD ALLEN

& SONS, LIMITED,

Cowper Street, Finsbury, London, E.C.

Telegrams :
"Persic, Finsquare, London."

Telephone :
London Wall 6556 (3 lines).

PETROLEUM JELLY

We are importers of finest American Jelly, Red, Yellow and White. Guaranteed B.P. Inquiries esteemed also for

GUMS. WAXES. DEXTRINE.

W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.

Telegrams: "KIDSTONISM, BILGATE, LONDON."

Telephone: AVENUE 8057.

S.V.M.

RANDALL & SON,

Limited;

Wholesale and
Export Druggists,

SOUTHAMPTON
Best Quality Only.

THE
BRITISH WAX REFINING
COMPANY, LIMITED.

WHITE BEESWAX
YELLOW BEESWAX

Slabs, Bars, Tablets or Discs

CERESINE WAX
Bleached Carnauba Wax
Carnauba Wax Residues

All Waxes Refined, Bleached and Manufactured at our Works, REDHILL, SURREY.

Registered Office:

5 RANGOON ST., LONDON, E.C.

THE
WHITE TAR CO.

4 Cliff Street, New York City,
N.Y. U.S.A.



Importers and Exporters of

HEAVY CHEMICALS

AND

Naphthaline
Products.

**LABORATORY
OF GENERAL PHARMACOLOGY,**
8, Rue Vivienne, Paris.

LONDON AGENTS:
WILCOX, JOZEAU & CO., 49, Haymarket, S.W.



**CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.**

THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
THE NERVOUS SYSTEM.

Sold by all Chemists.
Wholesale: 8, Rue Vivienne,
PARIS.

MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT
is extracted from cod-liver oil, and
contains all its efficacious proper-
ties without the disagreeable taste.

It cures Coughs, Bronchitis and Catarrh,
restores the appetite, and gives force to
feeble persons.

SOLD BY ALL DRUGGISTS.

**CHANDRON'S
DROPS**

(Gouttes des Colonies)

A harmless antiseptic
preventative against CHOLERA-
FERMENTATION - INDIGESTION
and other intestinal disturbances.

SOLD BY ALL CHEMISTS



*I find the odor exquisite and
I am charmed to have treated
my face. Very Sincerely,
Mary Garden*

**PARFUM
MARY
GARDEN**

RIGAUD

PARFUMEUR

16, RUE DE LA PAIX,
PARIS.

LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow
and golden, for pharmaceutical
purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs, and smaller
packages according to requirements.

Inquiries are solicited for this article
of **BRITISH MANUFACTURE**, and
buyers may rely that for quality and
price it will meet any competition.

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires: "Cestrian Liverpool."

Wholesale & Retail

CHEMISTS & DRUGGISTS

requiring anything in the way of

PRINTING

SHOULD COMMUNICATE WITH US.

Samples sent to the Colonies
on receipt of 5/- which amount
will be deducted from first order.

ALF. HARRISON & SONS

Chemists' Printers,

224 BURLEY ROAD, LEEDS.

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE - KING, ROBINSON & CO.
LIVERPOOL . . . MANCHESTER

F. M. RUDD,
Bronson,
MICHIGAN,
U.S.A

**GENUINE AMERICAN
PEPPERMINT OIL**

*"Columbia" Natural
"Diamond White"
Re-distilled.*

Finest qualities for Druggists,
Distillers and Confectioners.

Sole Consignees in United Kingdom—

R. W. GREEFF & CO.

Thames House,
Queen St. Place, LONDON, E. C.

**OKELL'S ORIGINAL
MONA BOUQUET**

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.
Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6, per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
THOMAS WEST & SON, 1187 Chester Road, MANCHESTER.
Stretford.

You!!

are the man who should be able to make a big thing out of Anzora Cream. Anzora is the only non-greasy preparation which will effectually control the hair, and is a splendid tonic for the hair roots. It has a great reputation; we offer a fat profit margin, and the demand is steadily increasing every day—

think it over!

Don't stock substitutes or you may regret the experiment.

TRADE TERMS:

11/6 per doz. Retail at 18/-
196 " " 30/-

CUT-OUTS & SHOWCARDS
ON REQUEST.

ANZORA PERFUMERY CO.,
32-34 Willesden Lane, London. N. W

ANZORA
HAIR CREAM



**A. Boake Roberts
& Co., Ltd..
STRATFORD, LONDON, E.**

... FOR ...

**SOLUBLE ESSENCES,
ESSENTIAL OILS,
OIL LEMON.**

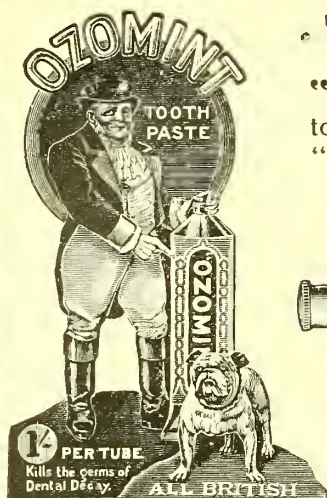
If you wish to make first-class
Aerated Waters, use
BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences:

Lemon,
Orange,
Ginger,
Ginger Ale,
Stone Ginger Beer (Cloudy),
Clear Ginger Beer,
Kola Champagne,
Lime Juice and Soda,
Lemon Squash,
Raspberry,
Strawberry,
Pineapple,
Vanilla, &c. &c.

**GOLDEN CARAMEL COLOURINGS, &c.
and all sundries.**

**A. Boake Roberts
& Co., Ltd..**

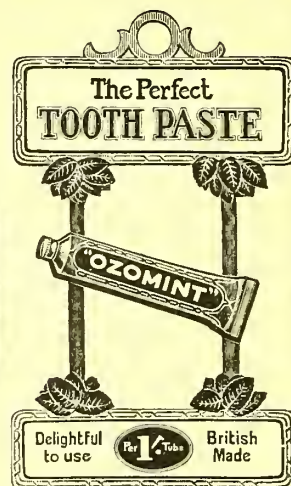


THE NEW TOOTH PASTE.

"OZOMINT" has been produced to replace the German Tooth Paste "PEBECO," which is now practically unobtainable.



DO YOU STOCK IT?
NOW is the time to push.



EACH TUBE PACKED IN A SEPARATE CARTON,
12 CARTONS IN ATTRACTIVE CARDBOARD OUTER.

Free Handsome Showcards (as illustrated) with Orders for 1 dozen.

Price **7/6** per dozen tubes.

CUXSON, GERRARD & CO., Ltd., OLDBURY.

"LESCOL" FLORAL PERFUMES

NOTE: Notwithstanding the shortage in cut glass and moulded bottles and fancy cases, we beg to inform you that we are exceedingly well placed, but as we are already receiving orders for Xmas trade would advise you to order early to avoid disappointment.

□ □ □

On receipt of a postcard stating requirements, our representatives will receive instructions to call with a full range of Samples.

LESCOL PERFUMERY CO.,

Telephone : 810 HOP.

Lomond Grove, Camberwell Green,
LONDON, S.E.

Telegrams : "VANILLIN, CAMBER, LONDON."

Award, London, 1881: "For Excellence of Quality."

Contractors to H.M. Government, The Crown Agents for the Colonies, etc.

SYNTHETIC OTTOS

"Zinyl" Brand (Regd.)

TRUE SYNTHETIC PRODUCTS (Non-Alcoholic)

These should not be compared with the "cheap" compounds offered, which are merely mixtures of various essential oils.

To Buyers who have not hitherto bought these Synthetic Ottos their use will come as a revelation, and as in most instances the Ottos are actually stronger than the essential oils they are intended wholly or partially to replace, they are most economical in use, while their similarity to the actual flowers is surprising. A feature of the "Zinyl" Brand is the natural delicate flower odour, free from the very objectionable and crude characteristics of cheap synthetic perfumes.

HELIOTROPE	- - 8/6 oz.	HYACINTH	- - - 9/6 oz.
LILY OF THE VALLEY	13/6 oz.	NEROLI	- - - 8/6 oz.
JASMIN	- - - 10/6 oz.	VIOLET	- - - 10/6 oz.
CARNATION	- - 8/6 oz.	WALLFLOWER	- - 10/6 oz.
ROSE.	One of the finest and most delicate Synthetic Ottos on the market. The "Zinyl" Brand passes the most discriminating tests, and is almost indistinguishable from genuine otto; and, though much stronger, costs but a fraction of the price.		
			13/6 oz.

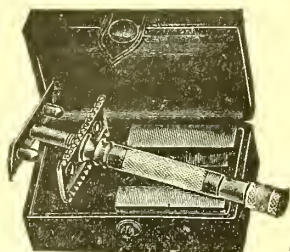
FULL LIST ON APPLICATION.

"A Triumph of Modern Synthetic Chemistry."—"C. & D." in 1912.

H. E. STEVENSON & CO.

Manufacturing Chemists and Wholesale Druggists,
122 GREAT SUFFOLK STREET, LONDON, S.E.

SAFETY RAZORS



Complete Outfits,
8/6 to 36/- Doz.

SAFETY
RAZOR BLADES,
4/6 to 14/6
per Gross.

Wholesale trade only supplied.

HAMMETT'S, —Manufacturers,—London, N.E.
422, MARE STREET.

WM. H. BOWDLEAR

Formerly of the W. H. BOWDLEAR CO.

respectfully solicits business from any
and all former correspondents, either
on a commission basis or otherwise.

CRUDE
REFINED
and
BLEACHED

BEESWAX

Quotations given in £ sterling, per cwt.

220 DEVONSHIRE STREET (Room 201a),
BOSTON, MASS., U.S.A.

"IT'S ALL IN THE EDGE."

Safety Razor Blades RE-SHARPENED.

Any
Style.

6d.
per
doz.

Returned
post free
same day.

Honed, Stropped, and Finished
by the latest machinery.

SATISFACTION GUARANTEED.

William P. Kelland
36 Camomile St., London, E.C.

AND AT

LIVERPOOL - - 38 Church Street.
BIRMINGHAM - - 36 Cannon Street.
SHEFFIELD - 119 Wentworth Street.

P.S. — Send Blades to the nearest depot.

"**PROFIT WITH ECONOMY.**"

(2)

TRENCH PILLOWS
THE MOST
USEFUL PRESENT FURNISHING.

1/6

TRENCH PILLOWS
1/6

TRENCH PILLOWS
1/6

**TEN REASONS WHY
Soldiers like TRENCH PILLOWS
THEY ARE**

1. LIGHT, UNDETERMINED BY NO WEIGHING TO CARRY
2. FOLD UP & GO IN HANDSOME POCKET
3. MOST EASILY MOVED OR CHANGED
4. READY FOR USE WHENEVER
5. WATERPROOF
6. COMFORTABLE, FIRM, & OF THE NECK
7. SOFTER THAN ANY OTHER PILLOW
8. USEFUL AS A LIFE BOAT IN LAUNCHES, BOATS, & C.
9. CHEAP & NOT INJURIOUS
10. USEFUL EVEN AS A COAT RACK

SEND YOUR SOLDIER ONE

Supplies, which come from Japan, are limited.

This Attractive Window Scheme is FREE.

READ THE DETAILS BELOW.

AIR Pillows are wanted by the Troops. They are asking for them. The demand is on the increase. The sources of supply are limited, therefore make a well-directed effort to secure the whole of the business in your town.

Chemists all over the country are selling thousands. Why not you?

With each order for Air Pillows we will send a complete set of cards for making a Special Air Window Display—**FREE**.

No. 1 Quality.—13/- per doz.; 3 doz. lots, 12/6 per doz.; 6 doz. lots, 12/- per doz.

No. 2 Quality.—10/6 per doz.; 6 doz. lots, 10/- per doz.; 1 gross lots, 9/6 per doz., carriage paid.

Large size, retail, 2/9; 21/- per doz.

A Recent Testimonial from a satisfied "Chemist and Druggist" Subscriber:—

"It might interest you to know that the other Saturday I sold 3 dozen in *three hours* during the evening, bringing up a total of 4½ dozen for the day."

Send in your Order NOW.

LLOYD'S, 60 Tennyson Rd., Small Heath, BIRMINGHAM.

BAISS BROTHERS**& STEVENSON, Ltd.**

**SURGICAL
INSTRUMENTS
AND
HOSPITAL FURNITURE.**

DRESSINGS.

**STERILISERS FOR
DRESSINGS AND
INSTRUMENTS.**

**WATER BEDS,
AIR CUSHIONS AND
ENEMAS.**

**DISPENSING SCALES
AND WEIGHING
MACHINES.**

**SURGEONS' AND
MIDWIVES' BAGS.**

**VETERINARY
INSTRUMENTS,
ETC.**

NOTICE.

After the 28th August our
firm will be known as

**BAISS BROTHERS
& COMPANY, Limited**

following the style of the firm
80 years ago, when it was
Baiss Brothers & Company.

**FINE CHEMICALS
OF ALL DESCRIPTIONS.**

**STANDARDISED
TINCTURES AND
EXTRACTS.**

**CONCENTRATED
INFUSIONS AND
DECOCTIONS.**

DISINFECTANTS.

**POWDERED DRUGS,
STANDARDISED.**

**PILLS AND
COMPRESSED TABLETS.**

**CONCENTRATED
SOLUBLE ESSENCES.**

**CHEMISTS'
PACKED SPECIALITIES.**

**EMULSION OF
COD LIVER OIL,
ETC.**

PRICE LISTS IN VARIOUS LANGUAGES.

BAISS BROTHERS & STEVENSON, Ltd.

Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments,

Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.

174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E.

Drug and Herb Farm: CARSHALTON, SURREY.

Established 1833.

Miss
Phyllis Dare.

Photo:
Rita Martin.



BEAUTY IN EXCELSIS

Wherever Beauty and a smart youthful appearance are appreciated, the preparations of Edwards' "Harlene" Co. hold premier position in public estimation.

For Hair Health and Beauty.—"Harlene Hair Drill" is required as the ideal scientific method, holding a clientele of millions of British subjects.

For the Complexion.—"Astine" Vanishing Cream—a new note in exquisite Beauty Culture—stands alone, Britain's most beautiful women declaring it Ideal.

For the Complete Overcoming of Grey Hair.—"Astol"—not a Dye or Stain—is recognised as the only true colour restorative.

Then there are also "CREMEX" SHAMPOO POWDER, "ASTINOL" AROMATIC FLUID (Pine Baths at Home), "ASTINE" SHAVING STICK, "ASTINE" SOAP, etc.

Watch the Great Free Gift Advertising Campaign that brings the flock of customers to your shop.

For particulars, advertising literature, &c.,

EDWARDS' HARLENE Ltd., 20, 22, 24 & 26 Lamb's Conduit St., LONDON, W.C.

Finest Norwegian Medicinal Non - Freezing
COD LIVER OIL

(GUARANTEED NORWEGIAN)

WRITE FOR PRICES TO—

ISAAC SPENCER & CO. (Aberdeen) Ltd., ABERDEEN

WE CAN GIVE PROMPT DELIVERY.

The White Ensign.

Our Series of Patriotic Tooth Powders has been augmented by the issue of the new **WHITE ENSIGN** package, uniform with the distinctive style of the **ROYAL STANDARD**, **UNION JACK**, and **ENTENTE** lines which have proved such profitable and wonderfully ready sellers. The **WHITE ENSIGN** is put up in the two popular sizes which so well meet the requirements of all classes of trade.

Prices: 24/- and 36/- gross net.

To every Retailer, on sending trade card, will be forwarded a complete specimen package, free of all charge.

"Newbery's"

FRANCIS NEWBERRY & SONS LTD.

CHARTERHOUSE SQUARE, LONDON, E.C.

FORD, SHAPLAND & CO

PRINTERS

We have specialised in
 Chemists' and Druggists' Printing for
 over 70 years. We have built up and maintained
 our reputation on quality and despatch. If you want

QUALITY PRINTING

send us your enquiries and we will submit suggestions
 and quotations. A few of our specialities are Labels,
 Cartons, Envelopes, Fine Art Show Cards,
 Dental and Optical Circulars, etc.

— Agents for —
 Registration of Trade Marks.

GREAT TURNSTILE, HIGH HOLBORN

♦ LONDON ♦

TEL. 65, CITY.

TELEGRAMS: FORSHAPCO
 WESTCENT, LONDON.

Chemists—

You are not satisfied with the *Developing* and *Printing* now being done for you. Let me put your work right. Send me your next spools. I will develop and print from the negatives. Art Velox only used.

SPEEDY RETURN. PERFECT FINISH.
PRICES GLADLY SENT ON REQUEST.

CHATHAM PEXTON,
46 GRAY'S INN ROAD, LONDON, W.C.
Telephone: 11578 Central.

SAPONINE

(SOLUBLE),

MANUFACTURED BY

C. W. FIELD, LTD.,

Cambrian Mills, LIVERPOOL.

Special Terms to Wholesalers and large Consumers.

SPECIAL OFFER

LOOFAHS

in 1 gross parcels.

Buy now, before prices are prohibitive through high freights and restricted importation.

1 gross assorted Loofahs 15/-

(Net cash with order. Carriage paid.)

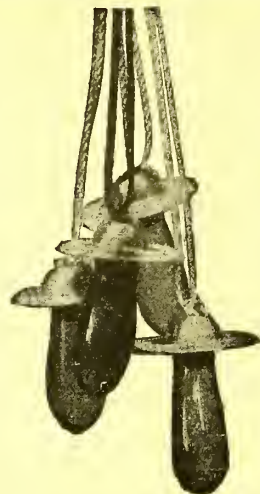
Foreign and Colonial postage 1/- extra.

Parcel consists of—

4 dozen each 6"—8" and 8"—10"
2 " 10"—12" and 12"—14"

THOMAS SWALES,
24 Butts Court, & 89 Albion St.,
LEEDS, ENGLAND.

The Eversafe Baby Pacifier



Patented in
all countries

ENTIRELY BRITISH MADE.

Accumulated orders permit
of forward delivery only.

F. SCHUTZE & CO., Ltd.
Black Bull Works :: LONDON, N.

Samples of our BRILLIANTINES Are at Your Disposal.

No. 1, 1 1/4 oz.	-	-	3/6 doz.
„ 1a, 2 1/2 „	-	-	5/6 „
„ 3, 1 1/4 „	-	-	3/3 „
„ 3a, 2 1/2 „	-	-	5/- „

Less 5 per cent. for cash, or
2 1/2 per cent. 30 days.

OWN NAME IF DESIRED.

Write To-day to—

Essona Perfumery Co.,
English Perfumers, WIMBLEDON.

TRADE

"VĒVAX"

MARK

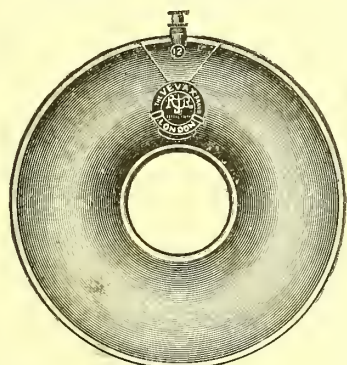
INDIA RUBBER AIR CUSHIONS.

Solid Rubber.

Double Flange.

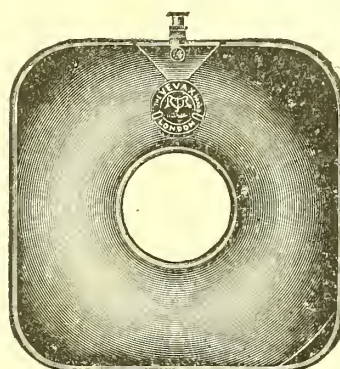
BEST BRITISH MAKE.

RED CIRCULAR.



12 in.	13 in.	14 in.	15 in.	16 in.	17 in.
5/6	6/-	6/6	7/-	7/9	8/6
18 in.	19 in.	20 in.			
9/3	10/-	11/3	each, subject.		

RED SQUARE.



14 in.	16 in.	18 in.	20 in.
7/9	9/6	11/-	13/3

each, subject.

THE DENMAN ENEMA SYRINGE.

Black Enamelled and Disconnecting.

BEST BRITISH MAKE.**Price Complete : 27/- doz. subject.**

All the Above Goods can be Supplied from Stock immediately.

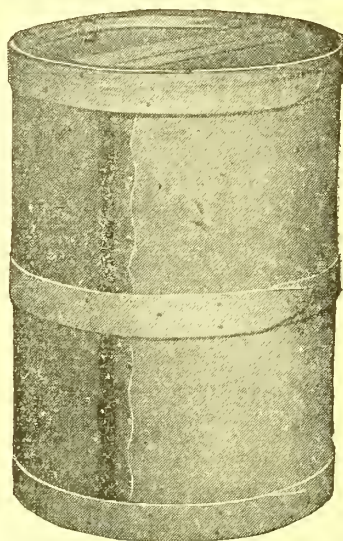
SOLE WHOLESALE DEPÔT:—

R. J. REUTER,
69 CARTER LANE, LONDON, E.C.

Telegrams :
 "REFRESHING, CENT, LONDON."

Telephone :
 4461 CENTRAL (2 Lines).

BRITISH MANUFACTURE



SPECIAL PATTERNS
FOR ANILINE DYES

THE "VENESTA" WAY

Wastage, leakage and damage in transit—claims on Railway and Steamship Companies in consequence—loss from goods spoiled or deteriorated by the action of air and water, these disadvantages are all obviated by using

"VENESTA" KEGS

LIGHT — STRONG — WATERPROOF

In addition they will save you money on actual Freight and Rail Charges by reason of their lightness and compactness.

The reason of this lightness and compactness is that they are made from "Venesta" Patent Waterproof Plywood.

VENESTA LTD.

1 Great Tower Street, LONDON, E.C.

Manufacturers, under the "Venesta" Patents, of boxes, cases and trays of all descriptions for home and export.

VL

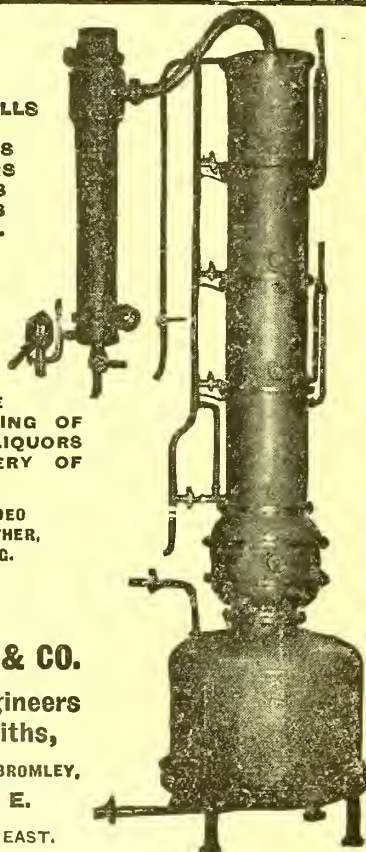
COPPER

VACUUM STILLS
DIGESTERS
JACKET PANS
PERCOLATORS
CONDENSERS
EMULSIFIERS
ETC. ETC.

PATENT STILL

FOR THE
STRENGTHENING OF
ALCOHOLIC LIQUORS
AND RECOVERY OF
SOLVENTS.

HIGHLY RECOMMENDED
FOR ACETONE, ETHER,
PETROL, ETC. ETC.



JOHN DORE & CO.

Distillers' Engineers
& Coppersmiths,

28-30 HIGH STREET, BROMLEY,
LONDON, E.

Telephone: 136 EAST.

Shears' Patent Mulser or Homogenizer

FOR PERFECTING EMULSIONS AFTER THEY
HAVE BEEN MADE IN ANY FORM OF MIXING
MACHINE,

AS USED BY MOST LEADING FIRMS

Price £27 10s. each.

A SIMILAR MACHINE, BUT FITTED WITH
SPECIAL BACK GEAR, RATIO 4 to 1, FOR
HOMOGENIZING VERY HEAVY EMULSIONS,

Price £37 10s. each.

BENNETT, SONS & SHEARS, Ltd.

Engineers & Coppersmiths,

43 SHOE LANE,
LONDON, E.C.

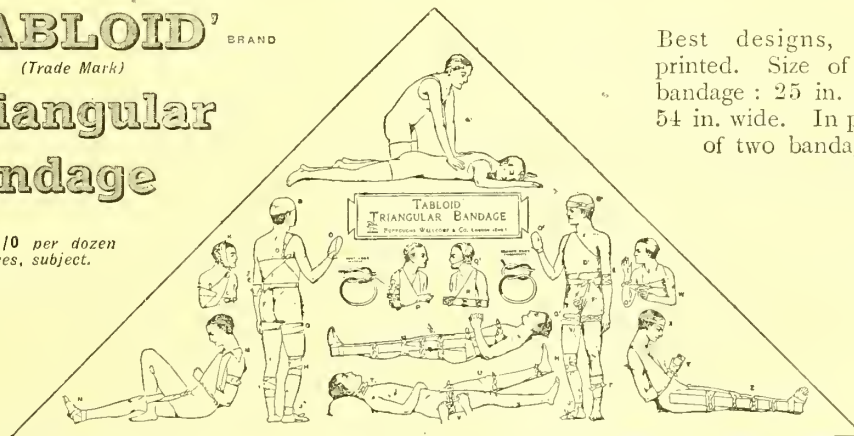
WAR-TIME WANTS

The following are profitable items to display and offer to volunteers, scout-masters, and other first-aid workers, also to medical clients.

'TABLOID' BRAND
(Trade Mark)

Triangular Bandage

Price : 9/0 per dozen packages, subject.



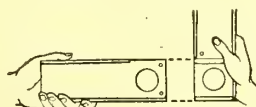
Best designs, clearly printed. Size of opened bandage : 25 in. high x 54 in. wide. In packages of two bandages.

TRADE MARK **'TABLOID'** BRAND

Splint Outfit

Provides a light, rigid, unbreakable metal splint for any limb. Interlockable sections.

The illustration shows two sections about to be interlocked to form an elbow splint.



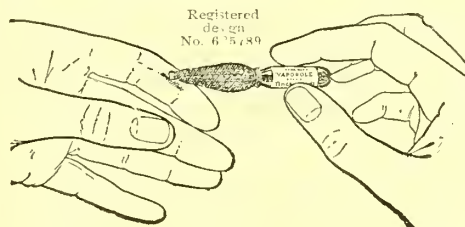
Registered design
Nos. 621480, 643073 and 646072

Contains 8 sections, wrist and foot attachments, stout card for finger-splints, felt padding and 4 'Tabloid' Triangular Bandages. Price in cardboard box 12/0, in japanned metal case 17/0 each, subject.

TRADE MARK **'VAPOROLE'** BRAND

Iodine Tincture

Emergency antiseptic for sterilising wounds, etc. Break the point and use as a swab.



Registered design
No. 675489

Two sizes: Min. 2 1/2 in boxes of 6, 18/- per dozen boxes: 1/2 fl. oz., for surgeons, 8/0 per dozen. Prices subject.

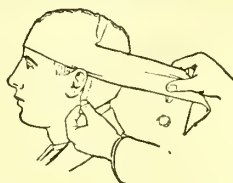
'TABLOID' Adjustable Head Dressing

(Trade Mark)

COMPRESSED

Makes head-bandaging easy. Applied in a few seconds. Perfect results. Washable.

Two sizes: 10/0 and 12/0 per dozen, the larger for extensive dressing. Pad of Double Cyanide Gauze and safety-pin with each. Prices subject.



Registered design
Nos. 609912
and 621237



BURROUGHS WELLCOME & CO., LONDON

G 728

COPYRIGHT

TABLETS

Close Prices
for
Quantity.

PILLS**Contractors to H.M. War Office.**

Write:-

H. & T. Kirby & Co. Ltd.,
Newman House, Belton Road,
Willesden Green, London. N.W.

Wire:-

Kirby Limited Willroad London

(3 words only.)

'Phone:-

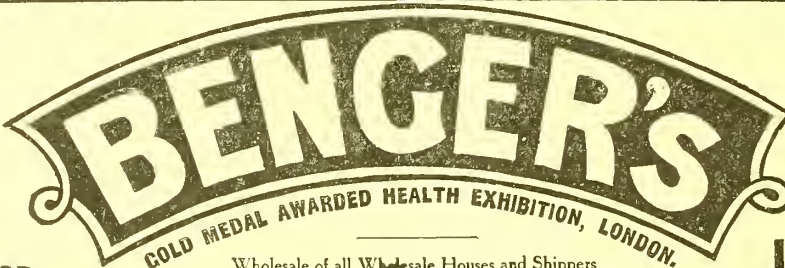
Willesden. 1412.

ESTABLISHED 1866

The *Lancet* de-
scribes it as

"Mr. Bengers's
admirable pre-
paration."

**FOOD FOR
INFANTS**



Wholesale of all Wholesale Houses and Shippers
or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beekman St., New York, U.S.A.
Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal & Branches.
ON THE P.A.T.A.

The *British Medi-
cal Journal* says:

"Benger's Food
has by its excel-
lence established
a reputation of its
own."

**INVALIDS
AND THE AGED.**

TRY OUR
ZEPTO
DISPLAY

PER
4/6
DOZN

Sells
remarkable
quantities of ZEPTO in
shortest time. No talk and trouble needed.
In ten minutes it is ready for business in your window.
In twenty your first customer will be in.
This wonderful line gives 66⅔%
minimum P.A.T.A.
profit too!

P.A.T.A.
7½
EACH

GET
TERMS NOW
FROM

CHRISTY
OLD SWAN LANE
LONDON



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of eighteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

Subscription Rates.

Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist's Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 1s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12s. 6d., franco.

Цѣна годового абонемента: Газета еженедѣльно и Дневникъ разъ въ годъ 12 шиллинговъ 6 пенсовъ съ пересылкой.

Precio de suscripcion annual: el periodico una vez por semana, y el agenda una vez por anno 12s. 6d., franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.

Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 35 (Series No. 1909), Vol. 88.

	PAGE		PAGE
Births	43	German News	<i>Col. Supp.</i>
Chemist's Stock at Auction	39	Information Department	44
Correspondence:		Insurance Act Dispensing	51
Letters	55	Irish News	40
Legal Queries	56	Legal Reports	42
Miscellaneous Inquiries	56	Marriages	43
Deaths	43	New Companies and Com-	
Deed of Arrangement	43	pany News	41
Dispensing for Dependents	50	Observations and Reflections	45
Drug Tariff Prices	51	Personalities	43
Dutch Colonial Institute	50	Poisonings	40
Editorial Articles		Retrospect	56
Position of Salicylates	46	Royal Photographic Society	39
Port Exports to Sweden	47	Scottish News	40
Pro-Law Orders	48	Symposium on Medicinal	
Swiss Chemicals	48	Plants	49
Glucose for Jam-making	48	Trade-marks	44
Manufacture of Phenol	48	Trade Notes	44
English News	39	Trade Report	52
European War	37	Westminster Wisdom	52
French News	41	Wills	43

Editorial Memoranda.

"C. & D. DIARY," 1917.—Our annual *Diary* has, in consequence of war conditions, to go to press somewhat earlier this year, and the work of revision has already commenced. We ask advertisers to assist us with their friendly co-operation in the matter of advertisements by forwarding copy and instructions without delay to the Publisher, 42 Cannon Street, London, E.C. The Editor asks Association Secretaries and others to reply promptly to his requests for information.

KNOWN, ADMITTED, AND APPROVED REMEDIES.—Since the Divisional Court of King's Bench gave, in 1903, the important and fundamental decision as to "known, admitted, and approved" remedies, raised in *Farmer v. Glyn-Jones*, we have reserved a space in the *C. & D. Diary* for these formulæ. Our *Diary* was the first book of the kind which the Revenue authorities accepted as an approved book of reference. The space reserved in the 1917 *Diary* for such formulæ will be limited, so that true copies of them, with doses or other directions for use, should be sent to the Editor *C. & D.*, 42 Cannon Street, London, E.C., as promptly as possible.

ELIMINATING THE ENEMY IN ITALY.—The Italian Government have published a decree prohibiting Italian citizens, including those residing abroad, and all persons living in Italy or her colonies, from doing business with all interests in alliance with enemies of Italy. All enemy businesses in Italy are to be liquidated.

European War News.

Enemy Firms to be Wound Up.

Back, Koller & Co., 43 City Road, London, E.C., importers of pumice blocks. *Controller: J. D. Pattullo*, 65 London Wall, London, E.C.

Surrey Varnish Works, 43 City Road, London, E.C., dealers in varnish. *Controller: J. D. Pattullo*, 65 London Wall, London, E.C.

Prohibited Imports and Exports.

NETHERLANDS.—Carbonate of ammonia has been placed on the prohibited list of exports.

SWEDEN.—The Swedish Chamber of Commerce for the United Kingdom, London, is in receipt of a cable from the Swedish Board of Trade, Stockholm, dated August 18, to the effect that about 100 different articles have been added to the list of goods which are now prohibited for exportation from Sweden to all countries, and also in transit through Sweden, among which are spices.

SWITZERLAND.—A decree of the Swiss Federal Council (July 21) provides that the importation of sulphate of copper into Switzerland is reserved exclusively to the State, the Agricultural Division of the "Département de l'économie publique" being charged with the purchase and importation. Sulphate of copper is only to be delivered for use in Switzerland.

UNITED KINGDOM.—A Supplement to the current issue of the "Board of Trade Journal" contains lists of those articles which, according to the latest information received by the Board of Trade, are prohibited from being exported respectively from the United Kingdom, Denmark, France (and Algeria), Greece, Italy, Japan, Netherlands, Norway, Portugal, Roumania, Russia, Spain, Sweden, and Switzerland. The Supplement may be obtained from the usual sale agents for Government publications, price 4d. post free.

Exports to Sweden.

The Director of the War Trade Department asks us to call the attention of all persons engaged in the export trade from the United Kingdom to Sweden to the terms of the Royal Proclamation which was issued on August 13 prohibiting the exportation to all ports and destinations in Sweden of all articles which are not specifically prohibited to be exported to Sweden except:

- (1) Printed matter of all descriptions.
- (2) Empty receptacles returned to Sweden.
- (3) Worn clothing and other personal effects.

(4) Live animals other than animals ordinarily used for human food.

Arrangements have been made by the War Trade Department with the Commissioners of H.M. Customs and Excise and H.M. Postmaster-General, whereby, subject to the limitations indicated below, goods to which this Proclamation relates will be dealt with by their Departments and, subject to those limitations, there will be no necessity to apply for a licence from the War Trade Department.

The practice of the Commissioners will be to accept entries for the goods in the usual manner subject to the production to them, at the time of making entry, of a guarantee, signed by the consignee before the Statens Handelskommission and attested by a British Consular officer in Sweden.

The practice of the Postmaster-General will be to accept parcels for transmission by parcel-post, subject to the production of a similar guarantee, provided that the parcels are posted at one of the offices now allowed for the posting of prohibited goods, namely, a head office, a branch office, or a district office. A separate guarantee will be required to be produced in respect of each consignment by parcel-post. These arrangements will not affect in any manner the ordinary powers of the Commissioners under any Act of Parliament to refuse to allow shipment or transmission by the parcel-post in any case in which they may be authorised by law to do so.

Until further notice the present procedure with reference to shipments to Russia, Persia, and Roumania will be continued without interference, although the goods pass in transit through Sweden.

German Contraband of War.

The German Government has published a decree in the "Reichsgesetzblatt," 1916, No. 166, of July 22, with regard to the articles it considers to be contraband of war. The lists of these articles have been changed in further retaliation of the regulations adopted by England and her Allies in deviation from the London Declaration Maritime Law of February 26, 1909. The lists of contraband and conditional contraband, which are very

long and exhaustive, comprise over 200 articles, and are followed by the following list of articles which "cannot be considered as contraband of war": Rosin, lac, and hops; bones; natural and artificial manures; lime; chalk; soap, dyes, and the raw material required for the preparation thereof; varnishes; chloride of lime, soda, caustic soda, sodium sulphate, and copper sulphate.

Military Tribunals' Decisions.

BATH.—Conditional exemption was granted to Thomas J. Hughes, assistant with Mr. D. A. Evans, chemist and druggist, Milsom Street.

BERMONDSEY.—Meggeson & Co., Ltd., lozenge-manufacturers, Llewellyn Grove, New Church Street, S.E., were granted three months' exemption for their head counter-man, who, it was stated, is dealing with medicated lozenges containing cocaine and morphine, and other drugs.—Simpson Gordon, analytical and manufacturing chemist and assayer, Rose Court, Gedling Street, S.E., was granted two months' exemption.

CUPAR.—Two months' exemption was granted to Mr. John Bruce, chemist and druggist.

PERSHORE.—Mr. A. C. Smith, chemist and druggist, and assistant to his father, Mr. A. W. Smith, has been granted conditional exemption.

POOLE.—Three months' exemption was given to O. O'Keefe, with Boots, Ltd., but the Military Representative stated that he should appeal against the decision.

ROCHDALE.—E. A. Wade, with Mercers, Ltd., was exempted until September 30.

SANDGATE.—Cecil A. Newport, apprentice with Mr. E. T. W. Timms, chemist and druggist, Sandgate, was exempted until April 1917.

SHOREDITCH.—Hugo Hotopf, applying for exemption, said he was the manager for the Badische Anilin und Soda Fabrik, which is being wound up under the Trading with the Enemy Act. The managers of the three branches of the German company in this country propose carrying on business in aniline dyes on their own account. Applicant said he was British born of naturalised parents. He claimed that he is assisting in establishing the British dye-industry with his expert technical knowledge of the dye-business. He and his partners proposed to act as agents for the Mersey Chemical Co., a German-owned business carried on under the control of the Board of Trade, and to import chemicals from Switzerland. The application was adjourned to enable Mr. Hotopf to obtain a letter from the Board of Trade that it was in the interests of the country that he should be exempted. This he has since done, and has been allowed six months' exemption.—Mr. Alfred Laurence Frith, departmental manager, in the employ of Henry W. Bush & Co., Ltd., Commercial Road, E., druggists' sundriesmen, appealed on conscientious grounds, but his appeal was dismissed.

Personal.

SERGEANT W. SUCH is suffering from shell-shock, and is in a Sheffield hospital. He was in the employ of Evans Sons Lescher & Webb, Ltd.

SECOND-LIEUTENANT J. F. MACKIE, chemist and druggist, Royal Scots Fusiliers, son of Mr. George Mackie, chemist and druggist, Minto Street, Edinburgh, has been severely wounded.

PRIVATE WM. PETRE, of the Royal Army Medical Corps, who was a chemist and druggist of Maryport before joining has been wounded by a bomb while carrying a wounded soldier on a stretcher.

PRIVATE JOHN PEACOCK, of the East Lancashire Regiment, formerly employed by J. Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, has been wounded, and is now a prisoner of war in Germany.

PRIVATE ERNEST ALDRED BUCKLEY, formerly associated with the business of his father, Mr. William Buckley, chemist and druggist, High Street, Lces, near Oldham, is a prisoner of war in Germany. He took part in the recent heavy fighting in France.

PRIVATE R. B. MERSON, only son of Mr. G. F. Merson, F.C.S., Ph.C., Edinburgh, is in hospital at Curragh Camp, Ireland, suffering from shrapnel-wounds in face and leg, received on August 9. Private Merson, who is nineteen years of age, was preparing to enter Edinburgh University when he joined the 9th Royal Scots (Highlanders) early in 1915. He was transferred to the Machine Gun Corps last June.

Miscellaneous.

SUGAR-ECONOMY.—The Royal Commission on Sugar-supply has issued a handbill urging the public, in view of the shortage, to exercise economy in the use of sugar.

APPROVED CHINESE FIRMS.—The following are among those published in the "London Gazette" of August 22: Chefoo Pharmacy, Chefoo; Moukden Hospital, Mukden; Shan-tung Drug Store, Chefoo.

MEDICATED WINES.—The Central Control Board (Liquor Traffic) has issued a notice for the Midland area regarding the sale of medicated wines. It is identical with the Order printed in the *C. & D.*, July 15, p. 34.

ENEMY PATENTS.—The official notification is made this week in the "Illustrated Official Journal (Patents)" that a licence has been granted to Allen & Hanburys, Ltd., to use patent 942/07, which relates to the manufacture of bromural.

CENSUS OF GOODS.—A new Regulation, 15 B, has been issued under the Defence of the Realm Act, which gives power to the Board of Trade not only to take stock of goods held in this country, but to order them to be sold if necessary.

DRUGGING TO AVOID SERVICE.—"The Times" states that the practice of drug-taking by men who want to escape military service has been under the consideration of the Army authorities, and it is expected that proceedings will shortly be taken under the Defence of the Realm Acts against certain chemists and others who are known to supply drugs to men who are called on to submit to medical examination. The drugs are usually self-administered, but undoubtedly certain chemists have lent themselves to the traffic.

PATENTS IN AUSTRIA.—According to a Vienna telegram, the Austro-Hungarian Government has issued a regulation that patents and trade-marks of subjects of France and Great Britain can, on request, be restricted or abolished in the public interest by the Minister of Public Works, or charged with royalties. The same regulation can be applied to patents of Russian subjects without regard to the public interest. Applications for patents and trade-marks by subjects of enemy States will be accepted but not granted.

BELGIAN DOCTORS' AND PHARMACISTS' RELIEF FUND.—A meeting of the Executive Committee was held on August 9. Since the last Committee meeting on June 8 the books of the Society have been audited by Crewdson, Youatt & Howard, and the following cash statement issued:

CASH ACCOUNT FROM DECEMBER 1, 1915, TO JUNE 30, 1916.

Receipts.			Payments.		
Dec. 1, 1915—	£	s. d.	June 30, 1916—	£	s. d.
To balance as per last account...	15,608	12 0	By relief ...	2,562	11 10
			" clothes ...	57	0 10
			" administration expenses ...	12	9 3
June 30, 1916—				2,632	1 11
Donations ...	305	8 5	Balance at bank, £1,945 12s. 3d.		
Interest received ...	528	3 10	Treasury Bills at cost, £11,864 10s. 1d.	13,810	2 4
Total ...	16,442	4 3	Total ...	16,442	4 3

The donations lately have been few and trifling, apart from a (second) generous gift of 100*l.* from the Society of Apothecaries. The total sum now received, including donations, interest on deposit, and interest on Treasury bills, amounts to 19,508*l.* 13s. 2d. 800*l.* a month continues to be sent to Belgium, four such amounts having already gone, and receipts received for three. The receipt for the fourth sum has not yet arrived—there is always a certain amount of delay in these documents. The expenditure in other directions has been low, only 44*l.* 2s. being spent on relief, 20*l.* 7s. 4d. on clothes, and 7*l.* 6s. on the repairing of instruments.

PROFESSOR DR. JOSEF MOELLER has retired as professor of pharmacognosy in Vienna University. The "Zeitschrift des Allgemeinen Oesterreichischer Apotheker Vereines" devotes a lengthy article to him. He was born at Pápa in Hungary on February 21, 1848.

PERKIN'S DYE-WORKS.—The statement in "The Times" that the dye-works formerly occupied by Sir William Perkin had been reopened is denied by Dr. F. M. Perkin. He states that the works never were at Wembley, but at Greenford Green, about two-and-a-half miles distant, and that there is no possibility of reopening them for the manufacture of aniline dyes. One reason, among others, why they were closed was that there was no main-drainage system in the neighbourhood. There is still none, and as such a factory would be prohibited from draining into the canal, and very large quantities of water are necessarily required in a colour-works, it would not be possible to use these works again for aniline dyes. Part of the works, however, are let for other purposes.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

War Office Contracts.

The following were among those concluded during July: Apparatus, x-ray (term contract): A. E. Dean. Chloride of lime: United Alkali Co., Ltd. Dental outfits: C. Ash, Sons & Co., Ltd.; Dental Manufacturing Co., Ltd. Disinfectants: Newton, Chambers & Co., Ltd.; Phoenix Sanitary Co. Disinfectants (term contracts): Heppell & Co.; McDougall Bros., Ltd.; Sanitas Co., Ltd.; R. Young & Co., Ltd. Medicines: Burgoyne, Burbidges & Co.; Burroughs Wellcome & Co.; W. B. Cartwright, Ltd.; Parke, Davis & Co.; J. Tye & Son; Willows, Francis, Butler & Thompson, Ltd. Medicines (term contract): B. Laporte, Ltd. Solution, viscose: Viscose Development Co., Ltd. Surgical materials: Arnold & Sons; J. Bell & Croyden, Ltd.; Burgoyne, Burbidges & Co.; F. H. Critchley; J. Critchley & Sons; Cuxson, Gerrard & Co., Ltd.; A. E. Evans; W. G. Fuller; J. Glover & Sons; J. L. Hatrick & Co., Ltd.; Implifico, Ltd.; H. Lewis; Longmates, Ltd.; Maple & Co., Ltd.; S. Maw, Son & Sons; J. H. Montague; C. Salmon & Sons; T. J. Smith & Nephew; Southall Bros. & Barclay, Ltd.; Surgical Manufacturing Co.; C. F. Thackray; S & J. Tuckett; J. Tye & Son; White & Wright. Surgical material and repairs (term contract): Fannin & Co. Ltd. Tetanus antitoxin: Burroughs Wellcome & Co.; Lister Institute of Preventive Medicine. Thermometers: C. Comitti & Son, Ltd.; A. Lee & Co.; Mayer & Meltzer; Pizzala & Co.; J. T. Powell & Co.; G. H. Zeal.

Royal Photographic Society's Exhibition.

The sixty-first annual Exhibition of the Royal Photographic Society opened, on August 21 at the Gallery of the Royal Society of British Artists, Suffolk Street, Haymarket, London, S.W. The pictorial section contains nearly two hundred photographs, the greater proportion of which are bromide prints. The scientific and technical photographs include some official panoramic war photographs, the work of the printing company of the Royal Engineers. Some interesting colour-photographs are also shown, the autochromes including one of the late Sir Henry Roscoe, and another set of three showing Sir James Dewar's "Soap Bubbles," which have been made the subject of many newspaper paragraphs of late. Dr. Robert Knox and Mr. Thurston Holland exhibit some fine radiographs of surgical subjects, one being a knee-joint with about sixty broken needles imbedded in it. The trade exhibits include one by Johnson & Sons, Ltd., of azol, amidol, and seal developers. Baryta, Ltd., who are making baryta paper in this country, show work done on "Barytone" bromide paper and "Sunlox" gaslight paper. J. J. Griffin & Sons, Ltd., show specimens produced on "Noctona" and bromide papers. The Exhibition remains open until the end of September, and is well worth a visit from photographic chemists. A series of evening lantern-lectures is to be held during the time the Exhibition is open.

A Pharmacy at Auction.

On August 17 the stock and fixtures of the pharmacy of Swire & Co., 294 Brixton Hill, London, S.W., which was established in 1821, was sold by auction. There was a good attendance of members of the craft. Prices paid for the stock were high, the real bargains being the fixtures. The following are a few of the prices obtained: Thirty-eight glass-label shop-rounds and contents (tinctures) were sold for 32s.; thirty shop-rounds containing wet and dry drugs fetched 16s.; fifty-four small-sized shop-rounds, glass labels, went for 38s.; a sporting lot of about two hundred bottles of various wet and dry drugs at the back of the dispensing-screen found a buyer at 30s. A cheap lot was about fifty dozen medicine and other bottles, for which 16s. was obtained, but another lot that fetched its value was a quantity of empty bottles, phials, and sundry labels and empty boxes, etc., which was run up to 38s. The patents, as usual, fetched nearly wholesale prices. There was no particular bargain to be found among the sundries: twenty dozen tooth-brushes fetched 52s., while six dozen rubber articles—syringes, sprays, catheters, etc.—went for 14s. A lot comprising 10 lb. of methylene blue found a purchaser at 5l. The window-enclosure, consisting of solid mahogany with mirror backs and plate-glass shelving, 5 ft. 6 in. long and 7 ft. high, only fetched 30s. The wall-fitting, 11 ft. high, mirror-backed, and eighty glass-labelled drawers, with eight lockers, went for 14l. 10s.; the glass-fronted counter and drawers under, 6l. 5s.; the dispensing-screen, 3 ft. long, fitted with four glass cases and a mirror in the centre and drawers under, 3l. 10s. The prescription-books were offered, but did not find a buyer.

London Pharmacists' Bowling Tournament.

On August 17 the representatives of the Western District were "at home" to the South-Eastern team at Bishop's Park, Fulham. At the start of the match the green was in a somewhat sodden condition, but improved as play proceeded, and an interesting game resulted in a win for the South-Eastern District on both rinks with a total margin of 30 points, the scores being 28 and 58 respectively. On the afternoon's play undoubtedly the better team won. Mr. Wilkinson made some fine shots for the home team, and Messrs. Winzer, Tugwell, Siddle, and Foulsham played well for the visitors. After the match the visitors were entertained to tea by their opponents. As the South-Eastern and the Northern have now each won both their matches, the meeting of these two teams at Wood Green on September 14 should prove extremely interesting.

Birmingham.

Mr. Councillor Poole presided at the City Tribunal on August 16, when important decisions were made with regard to military service under the new Act.

The Canadian Trade Commission visited Birmingham on August 17, and at a dinner given in their honour by the Birmingham Chamber of Commerce, Mr. Theo. H. Wardleworth, of the National Drug and Chemical Co., Ltd., Montreal, replied to the chief toast.

A meeting of the Council of the Birmingham Pharmaceutical Association was held on August 21, when five new members were elected. A donation of 5l. 5s. was voted to the Benevolent Fund of the Pharmaceutical Society. Mr. Thompson and Mr. Marshall reported on the successful work of the Minimum Prices Committee; the prices of a very large number of drugs, proprietaries, etc., are revised month by month, and a complete list sent to all signatories to the agreement. The Secretary reported that the scheme for dispensing medicines for out-patients of the General and Queen's Hospitals has been successfully inaugurated, 229 establishments having placed their names on the combined panel. The repetition of medicines beyond the time indicated on the hospital prescriptions was ruled to be out of order, and instructions to that effect will be duly issued.

Liverpool.

Mr. William P. Evans (President of the Liverpool C.A.) contemplates taking a rest in North Wales early in September.

Mr. James Barbour, for many years with Hy. Jackson & Sons, who have lately relinquished business, will enter the service of Ayrton, Saunders & Co., on September 4, and is to be placed in telephonic communication with the members of the trade, among whom he has long enjoyed a well-merited popularity. Ayrton, Saunders & Co. now occupy as a branch of their business an extensive block in Duke Street (Hanover Street end), erected five years ago for a firm of caterers.

The scholarship offered annually by Mr. H. Humphreys Jones, F.C.S., the Principal of the Liverpool School of Pharmacy, to part-time students who have attended the school during a whole session (September-July) was recently competed for. The student who received the highest number of marks—78 per cent.—was Mr. W. Stuttard, Runcorn. The papers were set and examined by Mr. H. E. Harriman, Rodney Street Pharmacy, a former student and demonstrator, the subjects being botany, chemistry, and materia medica. It is interesting to note that Mr. Stuttard has also distinguished himself by winning the Fairchild Scholarship with an average of 76.2 per cent. of marks.

Sheffield.

Mr. Stanley Dobb, of J. T. Dobb & Son, has been successful in gaining the silver cup for shooting offered by the Derbyshire Volunteers.

Mr. R. Gledhill is a very active worker in other spheres than pharmacy. As Chairman of the Dewsbury Poor-Law Infirmary he has been instrumental in offering the War Office accommodation for 100 wounded soldiers, which has been accepted.

The amount of Insurance dispensing has dropped very considerably during the last few weeks. This is accounted for to a large extent by the attitude of the Munition Court to workers who lose time through trivial ailments. They require medical certificates in all cases, and the reduction of available medical men makes it somewhat difficult to secure the odd bottles of medicine for often very imaginary ailments.

Mr. J. Hedley Beeley, Attercliffe Common, has had his window, which was rather unwieldy, reorganised by Messrs. Parnell. They have reduced the exhibiting portion by recessing the centre, which is lined with olive-green

curtains. One side is filled in with a notice of Insurance dispensing, and the other is given up to a dental exhibition, fitted with small-power lamps. The whole is worked out in green and gold, which is very attractive.

Miscellaneous.

OPIMUM-SMUGGLING.—A Chinaman was, at East Ham on August 22, sent to prison for six months for smuggling opium.

PHARMACIST VOLUNTEER TRAINING CORPS.—On August 27 the company will parade outside the Duke of York's School, Chelsea, at 10 A.M.

LABORATORY-WARE.—An exhibition of laboratory-glass is being held at the Institute of Chemistry, 30 Russell Square, London, W.C. Ten makers are represented.

BURGLARY.—During the night of August 18 thieves entered the private residence in St. Alban's Road, Leicester, of Mr. T. C. Peberdy, chemist and druggist, and stole 12l. in notes, 2l. 10s. in cash, and various other articles of value.

THE PREMISES OF BOOTS, Cash Chemists, Ltd., near Trent Bridge, Nottingham, were broken into early on Sunday morning, August 20. The thieves, having ransacked the place without finding any money, turned on the tap of a tank of methylated spirit, and set fire to the liquid, doing much damage.

THE WELLCOME HISTORICAL MEDICAL MUSEUM will be closed from September 1 to 30 inclusive for cleaning. It will re-open in October with an interesting loan exhibition illustrating the folklore of London, including medical charms, amulets, and other objects found to have been used by the superstitious in connection with the cure and prevention of disease.

OPIMUM-DENS RAIDED.—At Cardiff on August 18, sixteen Chinamen were fined in all 191l. for being in possession of opium prepared for smoking. The police haul included many cane-stemmed pipes for smoking, also 6 lb. of prepared opium, five 1-lb. packets of raw opium, three strainers, a copper used for the preparation of opium, and two buckets containing the residue of the prepared drug.

POISONINGS.—There have been reported since our last issue the following deaths from poisoning: The master of Lewes workhouse and a girl bookkeeper at the institution were found dead last week. At the inquest it was stated that death was due to potassium cyanide.—An ex-major named Jay was at a Westminster inquest found to have committed suicide with the same poison.—A Barnsley miner named Jones died after drinking laudanum.

LEICESTER V.T.C.—The Leicester pharmacists are doing useful work in connection with the local Volunteer Training Corps. They have formed a sanitary corps for the study of such problems as drainage, water-supply, etc., in reference to camps and other places. In addition the members of the corps, all qualified pharmacists, are going through the ordinary military training. The Secretary is Mr. C. J. Avery, who, with other members of the unit, recently spent some time with a regular military camp, obtaining the necessary instruction.

WEST HAM ASSOCIATION.—In connection with the West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists, Mr. Soper and a committee organised a ramble to Epping Forest on August 17. Starting from Harold Wood station the party proceeded by field-paths to the Bear at Noak Hill, and then crossed Lord O'Hagan's park, arriving at Havering, where tea was served at the Royal Oak. After tea the walk was continued by bridle-path to Sir Montagu Turner's (Bedfords), where the party was received by Sir Montagu, who pointed out the various places to be seen from this height. Crossing the golf-links, the train was taken at Gidea Park to Forest Gate. The weather was not all that could be desired, but the spirits of the party were undaunted.

CHEMIST'S WIFE KILLED.—Mrs. Estacea Dunlop, the wife of Mr. T. W. Dunlop, chemist and druggist (trading as Henson & Co.), 20 Beulah Hill, Norwood, London, S.E., was killed instantaneously by the fall of a large piece of rock from the cliff while sitting on the beach at Beer, East Devon, on August 15. An inquest was subsequently held, when a son of Mrs. Dunlop said that his mother, cousin, and himself were on a holiday at Beer, and on Tuesday evening were watching the rough sea close to a rock known as the "King's Aisle." He heard a crash, and on looking round could not see his mother, and thought she had walked round the corner. Finding this was not so he, in company with a gentleman, returned to the spot, and there discovered his mother lying dead under a piece of rock weighing about a ton.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Mr. A. S. Keane has opened business as a druggist at 48 High Street, Kilkenny.

Fannin & Co., Ltd., have taken over the business of Mr. H. P. Stack at 1 North Frederick Street, Dublin.

Mr. T. W. McMullan, of Thos. McMullan & Co., druggists and oil-merchants, Victoria Street and Ann Street, Belfast, has been co-opted a member of the Belfast Harbour Board.

Mr. James Maloney, brother of Mr. P. Maloney, dispenser at Tipperary workhouse, has sent in a claim to the Board of Guardians for 39l. for acting as *locum-tenens* during his brother's absence for thirteen weeks. It was stated that Mr. Maloney was appointed at 1l. a week, but that the Local Government Board had never sanctioned the appointment. It was agreed to leave the matter to the Local Government Board.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Turso.

Mr. Wm. Cummings, chemist and druggist, Thurso, was the first-prize winner in the bowling handicap which has been in progress at Thurso for the past fortnight. He played from scratch.

Edinburgh.

At Edinburgh Sheriff Court on August 18, a Danish sailor was fined 3l. for attempting to export $\frac{1}{2}$ cwt. of sodium carbonate. The soda was forfeited.

The manager of Wood's bottle-works, Portobello, was fined 15l. for neglecting to shade light from furnaces at a time when he had been warned that an air-raid was impending.

"A little knowledge is a dangerous thing." It also leads to inconvenience. While it would seem harmless for lay enthusiasts of little knowledge to air it in the local papers by writing of "carrageen or Iceland moss," it leads to disappointment when representatives of wholesale drug-houses, finding themselves caught in the boom, order supplies of carrageen by the second lay appellation.

A visit to the dépôt where the bottles collected by the Boy Scouts were on view was very entertaining, writes a correspondent. The "collection" was extraordinary in its variety. There were bottles which had contained sauce, essence of coffee, pickles, chutney, Listerine, Rubinat, Contrexville, and malt-extract. Several little lots of kind of "freak" bottles which appeared never to have been used formed part of the show. Then there were jam-jars and potted-meat glasses in great profusion. It seems scarcely fair to mention last the ubiquitous whisky-bottle; it was fairly but not generously represented. Medicine-bottles were in comparative minority. The thrifty Scots housewife carefully returns these to her chemist, and sees that she gets a *quid pro quo*; they are not allowed to accumulate with her. To a visitor the lady in charge expressed disappointment that there was not the great rush on the collection that was anticipated. To the suggestion that there might be some donations to the Corporation from the collection she said, No; that those unsold would be disposed of to the bottle-makers to melt down to produce new bottles. Sauce and coffee bottles appeared to be in demand. One box of dispensing flats, mainly 10-oz., 12-oz., and 16-oz., was put aside for a "chemist" at 10d. per dozen. Most of the bottles were very much soiled.

Glasgow and the West.

Chemists say that August so far has been a much better month for business than July.

Monday, August 21, was observed by many chemists as the belated Glasgow Fair Holiday.

The case against the three Chinese charged under the Defence of the Realm Acts Regulations with being in possession of smoking-opium was heard in the Sheriff Court on August 18. Two of the accused were discharged as being merely assistants to the chief offender, who was fined 1l. The implements used in opium-smoking, which were seized on the premises, were ordered to be forfeited. —Another Chinaman has been remitted to the Sheriff on a charge of having been found with $\frac{1}{2}$ lb. of opium in his possession.

French News.

(From the "C. & D." Paris Correspondent.)

ACADEMY OF SCIENCES.—At the meeting on July 31, J. Bergonie and C. E. Guillaume read a paper on surgical instruments for use in the field of the electro-vibrator. Ordinary instruments are violently oscillated, but if an iron-nickel alloy is employed, containing between 22 per cent. and 30 per cent. of nickel, the instruments are unaffected in the electro-vibrator field. In another paper, by C. Galaine and C. Houlbert, it was suggested that as the visible part of the spectrum for flies appears to be comprised between the green and the orange, it would suffice to glaze with blue glass the windows of hospitals and other places which it was desired to protect from flies.

PHARMACISTS' ASSISTANTS.—The General Association of Preparators in Pharmacy (the somewhat militant organisation of pharmaceutical assistants to which allusion has been made before) has issued a circular asking for support in its effort to induce the Minister of the Interior to decree that assistants over thirty, having had ten years' experience, shall be allowed during the war and for ten years after to sit for an examination which shall entitle them to a pharmaceutical diploma which, without giving them the right to open a new shop, would authorise them to act as managers or acquire an existing business. Pharmacists in general look upon this unfavourably. The General Association of French Pharmacists received a deputation of the Preparators, but subsequently addressed a letter to the Minister of the Interior, in which the disadvantages of the scheme were stated.

ALSATIAN PHARMACY.—The reconquest of a small portion of the former Alsatian territory by France, after forty-three years of German occupation, has raised some delicate points of jurisprudence, one of which is dealt with by Dr. Henri Martin in a recently published article. What is to be the future destiny of a pharmacist keeping open shop, for instance, in the Thann region, now reoccupied? He had acquired his establishment under the German law of limitation at a high price. Is the ordinary French law to be applied, and any pharmacist possessing the necessary diploma to be allowed to open shop next door? If the proprietor is simply a German immigrant, his definitive expulsion would provide a remedy, but to mete out such drastic treatment to Alsatians forcibly annexed in years gone by is, it seems, as impolitic as it is inequitable. Dr. Henri Martin inclines to the idea that some kind of limitation will have to be adopted, not necessarily on German lines, but possibly a simple official adjustment of the number of pharmacies to the density of the population, with, of course, as corollary, the prohibition of overlapping—i.e., of soliciting orders, delivery by bicycle, etc., at a distance. He does not hide his personal impression that were such a system applied not only to reconquered Alsace, but to the whole of France, it might be an excellent thing for the trade in general.



Everyone in his Place.

"Will mademoiselle allow me to remark with all respect that eau sedative should not be filtered?"

"Oh! How do you know?"

"I am a pharmacist of the first class."

"Oh yes, my friend! It may be that in civil life you are a pharmacist of the first class, but understand that here you are an orderly of the second class."—*La Chronique Pharmaceutique.*

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

MADDEN & CO., LTD. (P.C.).—Capital 200/. Objects: To carry on the business of chemists and druggists, etc. R.O., The Square, Skibbereen, co. Cork.

NICOLAI, LTD. (P.C.).—Capital 5,000/. Objects: To carry on the business of perfumery chemists, manufacturers, exporters and importers of, agents for, and dealers in perfumery and toilet-goods, chemical, industrial, pharmaceutical and other preparations, compounds and articles, etc. R.O., 129 Oxford Street, London, W.

T. B. PERCY, LTD. (P.C.).—Capital 1,000/. Objects: To carry on the business of manufacturers of and dealers in rennet, hitherto carried on at Truro as "T. B. Percy," and that of manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial, and other preparations and articles, etc. R.O., 11 River Street, Truro.

JOHN OAKLEY & SONS, LTD., have declared an interim dividend on the ordinary shares for the half-year to June 30 at the rate of 10 per cent. per annum.

COMPANIES WHICH MAY BE WOUND UP.—Three months from August 15 the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register, and the companies will be dissolved: Carlsbad Electro-Thermal Baths, Ltd.; International Remedies, Ltd.; Rotas Safety Strop and Razor Co., Ltd.; Selphosa Salt Co., Ltd.; Tonca Cattle Food and Condiment Co., Ltd.

APOLLINARIS AND JOHANNIS, LTD.—The directors of Apollinaris and Johannis have issued a circular to the holders of Four per Cent. Irredeemable Debenture stock, stating that a meeting will be held on August 30 to consider a scheme for funding the interest. The springs owned by the company are situated in Germany and Hungary, and the result of the war has been to bring the business of the company practically to a standstill, it being impossible to replenish stocks by obtaining further supplies from the springs. The debenture-stock interest has been paid up to the end of March last. The effect of the scheme is to suspend payment in cash of the interest on the debenture stock until the expiration of one complete financial year of the company after peace has been signed. The debenture-stock-holders will receive in lieu of cash during this period deferred-interest certificates carrying interest at the rate of 6 per cent., payable in cash half-yearly. No dividend on the preference or ordinary shares will be paid, and no distribution of assets among the shareholders will be made, until the deferred-interest certificates have been redeemed in full.

BRITISH DYES, LTD.—The report of British Dyes, Ltd., states that the board will not be in a position to adjust finally the accounts of the company for the year ended April 30, 1916, until they have arrived at a settlement with the Revenue authorities in regard to the duties payable under the Finance Act, 1916, and they are in consequence compelled to postpone for some time the issue of the balance-sheet and the holding of the ordinary general meeting for its consideration. Notwithstanding the restriction caused by the shortage of certain materials owing to the war, the supply of dyes from the company's works has been greatly increased. New plant has been erected and is in course of erection for further increasing the supply of those dyes which are most in demand, and which can be made in large quantities from the materials available. In the near future the supply will be further substantially augmented. The company has also sent to the Swiss manufacturers considerable quantities of raw materials and intermediate products, without which they would not have been able to continue their supplies to the British markets. A Committee appointed by the Board of Trade has made an exhaustive inquiry into the colour requirements of this country. Mr. Turner, who represents the company on the Committee, has submitted proposals for the prevention of overlapping in manufacture and for utilising the resources of all dye-makers in the country to the fullest advantage. After conferring with a number of the leading users of dyes, the directors decided, so far as the new works are concerned, to provide in the first place mainly for manufacturing on a large scale raw materials and intermediate products. A large amount of research and experimental work has been done, and a considerable quantity of plant has already been erected for the production of intermediates. Other important plants are in course of construction, including plants for paranitraniline and betanaphthol.

Legal Reports.

Novocaine Trade-mark.—Mr. W. Temple Franks (the Comptroller-General) and Sir Cornelius Dalton, on August 24, heard an application of Messrs. Kerfoot, Bardsley Vale, for the use of the novocaine trade-mark (276,477) belonging to the Farbwerke vormals Meister, Lucius & Brüning. Mr. Armstrong, who made the application, said that the use of the novocaine patent had been granted to Messrs. Kerfoot, and they now desired to have the limited use of the word novocaine. It was intended to sell novocaine as "kerocaine," but it was desired to identify the substance as novocaine. Labels which it was proposed to use were handed to the Comptroller, Mr. Armstrong adding that there is a doubt whether it was an infringement of the trade-mark to use it in the way indicated. The Comptroller said this is an instance in which novocaine is the only name of a patented article, a practice which seems to be much in vogue in the case of drugs. The case is similar to the salvarsan case, in which the trade-mark was granted to the licensee of the patent. He saw no objection to the use of the name "novocaine" in the limited form suggested, and should so report to the Board of Trade. The Comptroller took the opportunity of referring to a question which had been raised as to the royalty to be paid on a preparation, "arenocaine," which Messrs. Kerfoot intend selling. This consists of novocaine with a small proportion of adrenalin, and Messrs. Kerfoot had suggested to the Board of Trade that the royalty should be charged on the novocaine, and not on enhanced price caused by the addition of adrenalin. Mr. Murray, for the Farbwerke vormals Meister, Lucius & Brüning, opposed this view. The Comptroller heard the arguments on both sides, and is to advise the Board of Trade on the matter.

Prize Court Case.—In the Prize Court on August 22, Sir Samuel Evans was asked to condemn as prize of war ten cases of essential oils, valued at \$1,366, seized out of the Norwegian steamship *Progresso*, consigned from New York to Gothenburg. Commander Anderson, counsel for the Crown, said the oils were not contraband, but had to be dealt with under the Order in Council. The oils were consigned by Pfaltz & Bauer, 300 Pearl Street, New York, to Olaf Prytz, Gothenburg, and the consignors claimed them. Counsel suggested that the property had passed to E. Sachsse & Co., 11 Lutherstrasse, Leipzig, and Tiesing, Vienna, who, according to the "Deutsches Reichs Adressbuch," 1915, and the "Jahrbuch des Oesterreichischen Industrie," 1915, were manufacturers of ethereal oils and essences, flower oils and perfumes, and had their factory at Leipzig. Their note-heading stated that the factory was for volatile oils, artificial perfumes, non-alcoholic flower oils, spirit essences of all kinds, and harmless drugs. The documents referred to five cases of peppermint oil, 50 lb. of bay oil, and 250 lb. of clove oil, and the bill of lading was, c.i.f., dated New York, November 1-15. As to the destination, a document undoubtedly referred to a declaration by Olaf Prytz that the ten cases of essential oils were for consumption in Sweden, but certain letters had been intercepted in the post which supported the inference of another destination. The insurance was for \$1,255 at the rate of 12½ per cent., and the only original letter found in a certain group was one of Sachsse's. The letters showed considerable business between Sachsse and Pfaltz & Bauer. Sachsse had the invoices of this consignment, and he suggested they had the missing bill of lading, certificate, and insurance document. Sir Samuel Evans, having heard Mr. Bullock for the claimants, decided that the property had passed to Sachsse, that it was enemy property, and at the time it was diverted and discharged had an enemy destination. It came within the Order in Council of March 11-15. Certain legal questions raised could be discussed later.—In the Prize Court on August 23, counsel, on behalf of the Crown, explained that in a large number of letter-parcels captured in the mails of Dutch and Danish steamers was a consignment described as benzo-glycerine from N. V. Behn & Meyer, Batavia, to Behn & Meyer, of Manila, Philippines. The contents of the parcel were found to be salvarsan. They were goods of German manufacture. Sir Samuel Evans said the contents were clearly not correctly identified. They were of German origin, and the order of the Court would be that they be sold and the proceeds paid into court, to remain until the conclusion of peace or until further order. The drugs were seized on the Dutch steamer *Tabanan*.

Pharmacy Act Cases.—At Kirkcaldy Sheriff Court on August 17, Mr. J. Carmichael, chemist and druggist, Leslie, was charged with having used the letters "M.P.S." falsely representing that he was a member of the Pharmaceutical Society, on a lamp at his shop-door, and also on counter-

wrappers, etc. Defendant pleaded guilty. Mr. Thomson, solicitor, on his behalf, stated that he was previously a member of the Society up to the time of the coming into force of the National Insurance Act. The letters, however, might stand for anything, such as Manufacturer of Pharmaceutical Specialities. Mr. McAlpine, solicitor for the prosecution, said Mr. Carmichael had been warned from time to time about the matter. Sheriff Hannay, in imposing a fine of 10s., with 10s. modified expenses, said it was a somewhat unusual case. The Pharmaceutical Society was formed for the purpose of giving the chemists throughout the country a corporate standing under which their privileges and rights might be looked after, and apparently it existed for the purpose of seeing that any person practising as a chemist was properly licensed. There were reasons why accused considered it right to resign his membership and fall back upon his right to practise as an ordinary chemist without being a member of the Society, but he had failed to remove the letters "M.P.S." He did not think any great harm had been done except that the privilege of the Society had been interfered with.—Miss Margaret B. Young, assistant with Mr. Carmichael, pleaded guilty to a charge of selling 2d. worth of oxalic acid, she not being a qualified chemist. Mr. McAlpine, who prosecuted in this case also, stated that Mr. Carmichael was often away from his shop for long intervals, and Miss Young was the only one left in charge. Sheriff Hannay said this case represented the Pharmaceutical Society in its best light as protecting the public against unqualified chemists. It was quite clear that any chemist without proper qualifications was very likely to do serious harm, especially in the dispensing of poisons. He therefore imposed a penalty of 10s. and full expenses of 20s. 6d.

Shops and Licensing Acts.—At Windsor Police Court on August 18, Mr. Joseph Hewitt, chemist and druggist, trading as Russell & Co., 7 High Street, Windsor, appeared to answer three summonses charging him with keeping his shop open for serving customers on Wednesday, July 26, that being the weekly half-holiday fixed in respect to his shop; with selling intoxicating liquor—to wit, wine—without a licence on July 27, and again on August 4. He was defended by Mr. Herbert Ryland, and pleaded guilty to each charge. Chief Constable Carter said that in the course of certain inquiries which he was making into other matters, it came to his knowledge that the defendant was selling Wincarnis. He accordingly sent an agent to the shop, and he was supplied with a bottle of Wincarnis at a charge of 3s. 6d. On August 4 the same agent went again, and this time he was seen by the female assistant. She spoke to the defendant, and he simply asked whom it was for. On being told he said it was all right, and the wine was again supplied. That was at 5.30 p.m., and, in the opinion of the Chief Constable, that made the matter much worse, for the defendant was selling without a licence what those who had taken one out had to cease selling at 2.30 p.m. With regard to the offence under the Shops Act, defendant had been warned several times, and on this occasion he sold to an agent a packet of soap-powder or hair-wash. A search-warrant was issued, and the Chief Constable found on the premises two other bottles of ordinary Wincarnis and one bottle of Wincarnis with quinine, for the selling of which a licence was not needed. There were also some Panopeptone and Vibrona, both of which are intoxicating liquors. The Chief Constable referred the Bench to a recent report on the liquor question before a Parliamentary Commission, at which the proprietors of Wincarnis had stated that their wine contains 19.6 of alcohol. For the defence Mr. Ryland said the defendant had procured the wine for his wife, who had been recommended to take it. He admitted that when certain of his customers, knowing that he had some in the house, had asked for it, he had, very improperly, but not unnaturally, obliged them with it. He had only had twenty-six bottles, and there were only fourteen unaccounted for. He could never be suspected of having deliberately done this thing for the sake of the profit, because it was only 6d. on the bottle. He had only acquired the business in 1913, and had been trying to work it up. The same thing applied to the third charge. He had fallen into the trap by trying to be obliging, but he gave the assurance that he would never do such a thing again. The Bench pointed out to the defendant that he might have been fined 100l. but they would fine him 1l. in the case of the Shops Act offence, 1l. in the case of July 27, and 3l. in the more serious one of August 4, when he sold wine without a licence during prohibited hours—5l. in all.

THE EXPORTS of chemicals, drugs, dyes, and medicines from the United States during the three months ended March were valued at \$29,846,000, against \$11,996,000 during 1915 and \$6,254,000 in 1914.

Births.

MIDDLETON.—At 22 Gartmore Road, Goodmayes, on August 21, the wife of George Middleton, pharmacist, of a son.

SINCA.—On August 17, at The Terrace, R.N. Hospital, Haslar, the wife of R. A. Sinca, pharmacist, of a son.

Marriages.

CONYNGHAM—PAUL. — At Adelaide Road Presbyterian Church, Dublin, on August 14, by the Rev. James Snowden, Blackrock, Robert Stafford Conyngham, M.A., T.C.D., Ph.C., fifth son of Mr. Henry Conyngham, 40 Waterloo Road, Dublin, to Edith, younger daughter of Mr. and Mrs. Paul, 48 Merrion Road, Dublin.

DOWTY—HAMMOND.—At St. John's Church, Glastonbury, on August 14, John Dowty, pharmacist, The Abbey Pharmacy, Peershe, to Lilian Annie Hammond, Guildford.

Deaths.

COURTNEY.—At Belfast on August 21, Mr. Samuel Courtney, of Samuel Courtney, Ltd., chemical-manufacturers, Dalton Street, Belfast, aged sixty-one. Deceased was formerly chemist with Francis Ritchie & Sons, Ltd., Belfast, before he founded the business of which he was managing director.

LOUDEN.—The death took place last week of Mrs. Louden, wife of Mr. Jas. Louden, Ph.C., Shore Street, Donaghadee, co. Down.

MCDONALD.—At Munloch, Ross-shire, on August 22, Mr. Archibald McDonald, chemist and druggist. Mr. McDonald was in business before the passing of the Pharmacy Act, 1868.

SPRAGUE.—At Ruhleben Internment Camp, Germany, on or about August 3, Dr. Charles Thomas Sprague, formerly of 29 Buckingham Terrace, Edinburgh. Dr. Sprague, who had been interned in Germany as a civilian prisoner since the outbreak of war, was educated at a private school in Edinburgh and at Edinburgh University, where he took the degree of B.Sc., and subsequently went to study chemistry at Göttingen, Germany, receiving there the degree of Ph.D. He was afterwards employed as an analytical chemist in a large dye-works at Frankfurt, but retired some years ago on account of his health. On the outbreak of war all efforts to get back to this country failed.

Died on Service.

DIXON.—Private John H. Dixon, chemist and druggist, who was formerly in business at 69 Bridge Street, Workson, was killed in action on July 14.

DOBBS.—Private Wm. Kinnear Dobbin, son of the late John M. Dobbin, and grandson of the late Wm. Dobbin, J.P., of Wm. Dobbin & Co., druggists, North Street, Belfast, has been killed in action. He was a nephew of Mr. Wm. C. Dobbin, the present head of the firm. He was twenty-six years of age, and was an accountant in Belfast before joining the Royal Fusiliers in 1914.

HODGSON.—Acting Engine-room Artificer Ronald Hodgson, who was on one of H.M. warships, has been killed in action. He was the elder son of Mr. J. G. Hodgson, pharmacist, Lower Kirkgate, Wakefield.

KING.—Private W. Alexander King, Black Watch, who was killed in action last week, served his apprenticeship with Mr. R. I. Edwards, Ph.C., Shaftesbury Square, Belfast, and afterwards entered the service of Guinness & Co., Ltd., Dublin, as a dispenser. He was twenty-five years of age, a native of Armagh, and had been twenty months in the Army.

LAMPLUGH.—Sergeant Walter Lamplugh, D.C.M., of the Rifle Brigade, who was a pharmaceutical chemist and was attached to the London Sanitary Corps, has died in the Sinai Desert from heat and overstrain. He was the son of Mr. J. W. Lamplugh, pharmacist, and gained the D.C.M. for services rendered with the Anzacs in Gallipoli.

TAYLOR.—Private Thomas Taylor, of the Northumberland Fusiliers, and son of Mr. A. Taylor, analytical chemist, 70 Heidelberg Road, Bradford, has been killed in action on the Western Front.

UDALL.—Sergeant Wilfrid E. Udall, who was formerly secretary to Thompson & Capper, Ltd., manufacturing chemists, has fallen in action at the age of twenty-eight.

He was one of the first to join the "Pals" in the early days of the war. He was killed on July 30 by shrapnel whilst leading his platoon into action, death being instantaneous.

WELLS.—Private Albert Willis Wells, of the South Staffordshire Regiment, an assistant with Porter & Son, pharmacists, Belvoir Road, Coalville, has died from wounds received in action. Private Wells was only eighteen years of age, and was a signaller and bomb-thrower. He was very severely wounded in both legs and the left shoulder.

WILSON.—Sergeant Cecil Roy Wilson, King's Royal Rifles, who was killed in France on July 22, was twenty-two years of age. Educated at Magdalen College, Wainfleet, he served his apprenticeship with Mr. F. P. Watson, chemist and druggist, Lincoln. He enlisted in October 1915, and very speedily gained his stripes. He was out with a sandbagging party when a rifle-grenade struck him in the back with fatal consequences.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. F. BLACKMORE, Ph.C., having received his discharge from the Royal Field Artillery on medical grounds, has resumed the management of his business at 17 High Street, Weston-super-Mare.

MR. G. M. KEMP, chemist and druggist, manager of Boots, Ltd., Dundee branch, has been elected to the office of M.E.J. of the Royal Arch Chapter, St. David's, No. 164, for the ensuing year.

L. T. ROSE, the thirteen-year-old son of Mr. Alfred Rose, chemist and druggist, has passed the Junior School examination of the London University, passing in all eleven subjects and gaining distinction in four.

MR. A. H. W. AYLING, 18 Cowley Mansions, Cowley Road, Brixton, S.W., has been appointed Master of the Society of Apothecaries. Mr. Chas. Sangster, Lambeth Road, S.W., is the Senior Warden and Colonel B. B. Connolly, C.B., the Junior Warden.

MR. HENRY C. QUELCH, senior partner of Henry C. Quelch & Co., Ludgate Square, London, E.C., with Mrs. Quelch, is leaving England by the s.s. *Philadelphia* for an extended tour in the United States and Canada. The voyage is taken for both health and business reasons.

THOMAS MEIRION LLOYD, third son of Mr. I. T. Lloyd, chemist and druggist, 267 King's Road, Chelsea, has passed the recent London Matriculation examination, in the First Division. He also gained the prize for "Mathematical Proficiency" at the City of London School (Classical Fifth Form).

Wills.

MAJOR WILLIAM HENRY BLAKE, analytical chemist, Holly Lodge, Ebechester, Durham, who died on active service on May 19, left estate valued at 4,141l. 14s. gross, with net personalty 4,043l. 10s. 8d.

MR. CHARLES JAMES GARIBALDI BUNKER, chemist and druggist, 30 York Street, Twickenham, who died on June 27, left estate of the gross value of 3,716l. 18s. 10d., of which 2,238l. 14s. 10d. is net personalty. Probate of his will has been granted to his widow, Mrs. Kate Bunker, the sole executrix.

MR. JOHN LYTLE, Dumbarton, Derryvolgie Avenue, Belfast, director of John Lytle & Sons, Ltd., and of the North of Ireland Chemical Co., who died on May 15, intestate, has left personal estate in the United Kingdom of the value of 15,931l. 13s. 6d.

MR. HARRY MONKMAN, 14 Blenheim Road, Bradford, chief traveller in the household specialties department of Stephenson Bros., Ltd., Bradford, who died on May 10, left estate valued at 5,788l. 11s. 4d. gross, with net personalty 5,167l. 19s. 1d.

Deed of Arrangement.

Owen, William, 104, Heyworth Street, Liverpool, Chemist and Druggist.—Trustee: H. D. McAusland, 8 Victoria Street, Liverpool. Dated, August 8; filed, August 15. Liabilities unsecured, 189l.; estimated net assets, 149l. The following are among the creditors: Kerfoot & Co. (4l.); J. Richardson & Co. (Leicester), Ltd. (29l.); Evans Sons Lescher & Webb, Ltd. (27l.); Wigglesworth & Co. (5l.).

Trade Notes.

BOLDO-LEAVES are offered by Gignoux Frères & Co., Décines, near Lyons. Stocks are held in London.

BARIUM CHLORIDE is the subject of a special offer by Gough, Kidson & Co., 12 Bermondsey Square, London, S.E.

MR. GEO. TEASDALE has disposed of the business of Teasdale's chlorodyne to the Teasdale's Chlorodyne Co., 1A Ellercroft Road, Bradford, as from August 1.

LOOFABS.—Mr. Thomas Swales, Leeds, is making a special offer of loofabs, which should be taken advantage of in view of the probability of further restrictions on imports and the high cost of freights.

RED-GUM PASTILLES as an attractive winter speciality are offered by T. Guest & Co., Ltd., Carruthers Street, Ancoats, Manchester. Samples and prices will be sent on application to the company.

FREEMAN'S GLASS-LEMON is a product of the Watford Manufacturing Co., Ltd., Victoria Works, Watford, which is much in demand during the hot weather. Particulars are given in an advertisement in this issue.

P.A.T.A. PROTECTED LIST.—The additions in August are Allenbury's preparations (additional); Brown's Electric Stick Stain-remover; Fellow's laxative tabs.; Southall's 1916 Eau de Cologne; Tetra crêpe bandages.

STANDARD PRICE-LIST.—Mr. Chas. Philip, chemist and druggist, 23 High Street, Herne Bay, has published (post free 1d.) a supplement to his Standard List, which gives the alterations for August due to advanced prices.

BURROUGHS WELLCOME & Co., Snow Hill Buildings, London, E.C., announce that their warehouses will be closed on Thursday, August 31, for the purpose of stocktaking. Only emergency orders can be executed on that day.

PROTEIN PREPARATIONS.—Mellin's, 48 Regent Street, London, W., have specialised in therapeutic protein preparations, and in their advertisement in this issue particularise seven of these products with the proportion of the metallic component.

D & W. GIBBS, LTD., City Soap Works, Wapping, London, E., ask us to state that the rumour that Mr. A. M. Cumming, their representative in the Liverpool district, is ill is unfounded. Mr. Cumming is in good health, and is following his usual avocation.

CHRISTMAS TRADE IN LESCOT PERFUMES can be contemplated with equanimity by chemists who order well in advance. The Lescot Perfumery Co., Lombard Grove, Camberwell Green, London, S.E., make an announcement regarding Christmas supplies of perfumery.

SYNTHETIC OTTOS.—H. E. Stevenson & Co., manufacturing chemists, 122 Great Suffolk Street, London, S.E., particularise synthetic ottos, which they offer under the Zinyl brand. These are carnation, heliotrope, hyacinth, jasmine, lily of the valley, neroli, rose, violet, and wallflower. A full price-list is sent on application.

WESTMINSTER COLLEGE OF CHEMISTRY.—Messrs. Wills & Woodnoth call our attention to the fact that in condensing the particulars regarding the Westminster College of Chemistry, Pharmacy, and Botany, the penultimate sentence was incorrectly interpreted. It should read "A revision course is held from August to October examinations each year. The College syllabus can be obtained post free on application."

BI-PALATINIDS.—Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C., have published some attractive booklets regarding the various forms of bi-palatinoid ferrous carbonate. These are intended for distribution among medical men in connection with a scheme for bringing the advantages of these iron preparations to the notice of the medical profession. The booklets are neatly produced, and the information they contain is conveyed in a concise manner.

RENNET-SUBSTITUTES.—The prohibition of the slaughter of calves has created a scarcity of rennet, and Armour & Co., Ltd., Atlantic House, Holborn Viaduct, London, E.C., are providing a substitute about which they issue a booklet.

SALICYLIC ACID AND ASPIRIN.—W. Everitt & Co., Ltd., Southall, Middlesex (whose selling-agents are R. Lane-Hall & Co., 4 Lloyd's Avenue, London, E.C.), submit samples of their British-made salicylic acid, in crystals and powder, of guaranteed B.P. quality. The acid has a melting-point of 150° C., and is quite free from odour, the colour being pure white. The company are also making aspirin, and the sample they send us is entirely free from salicylic acid, is odourless, and excellent in colour. The company are in a position to deliver regular quantities of these synthetics at favourable prices.

COMMERCIAL VEHICLES.—B. F. Goodrich Co., Ltd., 117-123 Golden Lane, London, E.C., have issued a volume entitled "Commercial Vehicles of Great Britain," which is intended to give business-houses an idea of the variety of commercial vehicles which are obtainable and are used for different trades. The book contains specifications of about forty vehicles, each being illustrated with half-tone blocks. At the end are chapters dealing with tyre equipment and devices for increasing efficiency in handling goods. The book is particularly interesting to those who are adopting motor conveyance. A copy will be sent to any of our subscribers on application to Messrs. Goodrich.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(From "The Trade-marks Journal," August 23, 1916.)

Device of Atlas, with words "AMIDOL-ATLAS BRAND," etc. ("Amidol" disclaimed); for a photographic chemical (1). By Claus & Co., Ltd., Crabtree Lane, Clayton, Manchester. 373,025. (Associated.)

Device of horse-shoe and horse's head; for a colic medicine for horses (2). By H. W. Tate, 21 Southcote Road, Bournemouth. 372,896.

"LYEVERM"; for a vermin-destroyer (2). By G. Waddington, 20 Dronfield Road, Pendleton, Manchester. 373,865.

"ARENOCAINE" and "SUPRACAIN"; for anaesthetics (5). By T. Kerfoot, Bardsley Vale Mills, Lancs. 373,742.

"SUNWOOD"; for medicinal chemicals (3). By J. W. Farrow, 5 Robson Street, Low Fell, Gateshead. 373,792.

"TENASYLE"; for all goods (11). By Coxeter & Son, 171 Pancras Road, N.W. 372,759.

"BLIGHTY"; for fermented liquors, etc. (43), and for mineral and aerated waters (44). By Stevenson & Howell, Ltd., Southwark Street, S.E. 373/985/6.

"TRAFLEUR"; for perfumery, etc. (48). By Mrs. Manning, 79 Princes Street, Edinburgh. 374,008.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated

48/57 Electro-galvanic lung invigorator	51/28 "Fisolin" disinfecting fluid.
51/17 Nouvelle et Cie's perfumery.	46/20 Vermin-proof vest.
52/67 Pumice-stone soap in the form of paste.	54/53 "Cafagel."
	54/9 Koh-i-noor tooth-paste.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

Absolom's tea, 53/11	"Peronia" perfume, 53/23
Baby's carminative, 50/56	"Pyxol," 51/66
"Donozor" disinfectant, 50/28	Roche's embrocation, 50/56
Gartrell's dental gauges, 48/51	Rowe's hot-water bottle-stoppers, 51/4
Harrison's nursery pomade, 48/65	Stone's pills, 48/50
"Hennaglinta," shampoos, 52/11	Willow boxes (substitute), 26/49
Intramune, 42/16	Woods' peppermint cure, 45/551
"Liquozone," 51/18	and 42/43
"Perol" liquid-paraffin, 51/15	

APPRECIATIONS.

From a Wholesale Firm in the Midlands:

"We consider your Information Bureau one of the most useful adjuncts to the C. & D."—(32/6).

From a Manufacturing Firm in London:

"We thank you for your letter of the 29th ult., and much appreciate your prompt attention. We are communicating with the names given."—(34/4).

From a Firm in the Midlands:

"Please accept our best thanks for your prompt reply re —. Such instances prove the value of your paper to reader as well as advertiser."—(47/14).

From a Subscriber in the North:

"I thank you for the prompt reply to my inquiry re It is worth something to know how readily we can get assistance by applying to you."—(52/44).

Observations and Reflections.

By Xrayser II.

The Appearance of your Educational Number

offers an opportunity for a few remarks on *cramming*, which may not be entirely orthodox, though I venture to think that they will be practically endorsed by many honest students. One of your contributors told us some time since how he passed the Minor after six weeks' preparation. This was clearly a case of cramming; and the question is suggested, Is such "preparation" legitimate? Assuming some previous theoretical knowledge of the subjects, and some familiarity with the practice of pharmacy, I hold that it is; indeed, cram of a sort seems to me inevitable in any system which makes examination the test of knowledge, as ours does. The term, says Murray, is always used in a depreciatory and hostile sense, and his instances of its use confirm the statement; but they are not the only instances that might have been given, and others have been supplied elsewhere which considerably modify the statement. Murray's earliest quotation is dated 1741; but Locke, writing in 1697, uses the word in exactly the same sense when he says: "They dream on in a constant course of reading and cramming themselves, but not digesting anything." Here, too, the word has a depreciatory meaning, but this can hardly be said, of Dean Alford's use of it in several letters quoted in his "Life." He says, for example (p. 35): "I think that if I really can cram these, as we Cantabs call it, it will be a very respectable set out in classics"; and other passages might be quoted in which there is no implication of anything unworthy in the practice of cramming. The term, as Alford indicates, originated, in this purely technical sense, at Cambridge. The early Oxford equivalent was "coaching," which has not quite so "hostile" a sound. Cram, of course, is not a substitute for education, but it may give point and efficiency to previous knowledge, and this is what good crammers aim at. "Packing" has sometimes been used in the same sense, and it is, perhaps (as Mr. Weller says of "circumwent"), a "tenderer" word. It indicates the storing of knowledge in such a way that it can be got at when wanted, and if cramming teaches us how to do this it teaches something which is of permanent value.

"Education"

is an ambiguous term, and when we speak of the education of a pharmacist we mean something rather different from education in general. Technically pharmacists are an educated class, and even technical education has an influence beyond its immediate sphere; no man, it has been said, is ignorant who knows his own business thoroughly, and thorough knowledge of any business implies a good deal of knowledge of other things besides. But there is a danger, and I am afraid it is a growing danger, of neglecting the general cultivation of the mind in the pursuit of material advantage. Efficiency is now exalted, and education is too often regarded not as an end in itself, but as a means to an end. It is, of course, both, but the former is the higher, and ought to be the predominant view. I notice that our first examination is now known only as the Preliminary; it is regarded merely as a step admitting to a technical examination; in my youth we knew it as the Classical or Preliminary examination. It is a small matter, but not, perhaps, without significance; and although "classical," may have been too flattering a term, it was evidence, at least, of some regard for letters—of more, I think, than is common at present. The value of science as a factor in education cannot be overestimated, but the mistake is sometimes made of regarding it as a substitute for literature. It is nothing of the kind; "all science becomes poetry after it has been philosophy," but the literature of knowledge itself is subsidiary to the literature of power, and if we desire a liberal education we must familiarise ourselves with that "breath and finer spirit of knowledge" which we find only in the great creative writers of the world.

Jay Mack

and the practical school will probably regard my view of education with amusement, if not with a feeling even less flattering, but I hope nobody will quote against me anything I may have said in excuse for cramming. Frankly, I do not consider examinations any test of education as I understand it, and it is to them, not to real education, that my remarks on cramming refer. It is a strong argument in favour of some such scheme of pharmaceutical education as Jay Mack advocates that cramming under it would be reduced to a minimum, if not eliminated altogether. He does his scheme injustice in calling it a curriculum, for it is a good deal more than a curriculum; "practical" is perhaps intended to indicate this, and the course he lays down is nothing if not practical. Unfortunately it will all come to nothing if it is not also practicable, and I gravely doubt whether it is so. I put this point as mildly as possible. Jay Mack says, "Don't raise silly obstacles," but what about the obstacles that are already there? Their name is Legion; they require no raising; the question is how to lay them.

"A Regular Apprenticeship."

said the Chairman of a Military Tribunal when adjudicating the other day on the claim to exemption of a tradesman who said he had "picked up" his knowledge of the business he was engaged in, "would have had more weight with me." This judgment is a sound one, whatever the trade, and it is especially so when the trade is pharmacy, in which the necessity of a thorough training from the very beginning is of supreme importance. My own apprenticeship was not the happiest part of my life, and its conditions were by no means ideal from the educational point of view; but I learnt in those four years what I could not otherwise have learnt at all, and the discipline (to say nothing of anything else) was of incalculable value. To the excellent advice you give to apprentices I should like to add just one word. The apprentice's preparation for the Minor should be regular and systematic, and to ensure its being so there is nothing like a course of instruction under a paid teacher. If there is no school of pharmacy or other means of instruction in the town (as is often the case) the postal system serves almost equally well to "keep one's nose to the grindstone," and though it is an imperfect substitute in some respects, it is an admirable introduction to college work.

Culpeper's Dispensatory.

both as marking an epoch in the history of English pharmacy and for its own sake, deserves a more particular notice than I was able to give it last week. It was the first publication of the kind in our language, but it differs from most of its successors not only in being addressed rather to the general public than to the professional practitioner, but in the bitterness of its criticism of the work it was intended to supplement and popularise. Many of Culpeper's strictures on the "College" were, as I have said before, sensible enough, and in many respects, extravagant as was his conceit, and crazy as were some of his notions, he was ahead of his time as it is reflected in our first Pharmacopœia. He preferred simples to compounds, or, at least, to such absurd compounds as many that were in vogue; and his famous outbreak against excrements shows that he did not share what seems to have been the common opinion, that there is medicinal virtue in mere nastiness. He corrects many mistakes of the College, and shows the folly of ordering such medicines as it is impossible to get, or which, if got, are no better than others that are cheaper and more accessible; it is more sensible (he says) to prescribe things that are equally "cordial" and "revive the body without bringing the pulse into a consumption." His piety, or rather his expression of it, is, to our modern taste, a little sickening, but it appears to have been genuine; and his violent language (for which he apologises) was partly a vice of style common at the time, a rhetorical trick, or little more, and partly a personal fault which he could not help.



DISINFECTANTS

(Fluid, Powder and Soap)

- "Sanitas Fluid" No. 2 (Crude).
Non-poisonous, disinfectant and deodorant.
- "Sanitas-Bactox."
Homogeneous Phenoloid Disinfectant; 18/20 co-efficient.
- "Sanitas-Okol."
Emulsified Phenoloid Disinfectant; 18/20 co-efficient.
- "Sanitas Sypol" (Improved Lysol).
- "Sanitas Sulphur Candles."
- "Sanitas Formic Sulphugators."
- "Sanitas Formitas Outfits."
- "Sanitas Formigators."
- "Sanitas Drain Testers."
- "Sanitas Polishes."
- "Sanitas Distemper," for walls.
- Peroxide of Hydrogen (Kingzett's Preserved.)

Kingzett's Patents

The "SANITAS" CO., Ltd.,
Locksley Street, Limehouse, London, E.

BRITISH ABSOLUTE ALCOHOL

Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd.,
LAMBETH, S.E.

For a substitute for
Rennet in Cheese-
making, see page 4

SUPPORT YOUR COLONIES.

THE FINEST

COD LIVER OIL

IS

MUNN'S NEWFOUNDLAND

In 25-gallon tin-lined Barrels.

Samples and Prices from the Agents:

CHARLES LANE & SONS,
7-8 Idol Lane, LONDON, E.C.



Wilcox, Jozeau & Co.

49, HAYMARKET, LONDON, S.W.

Export and other Buyers should apply for a List.
Foreign prescriptions dispensed for Pharmacists.

BRITISH

THYMOL

Contracts can now be booked ex the new crop.

JUNIPERWOOD OIL

A LIMITED QUANTITY IN STOCK.

H. RUBECK, DISTILLER OF ESSENTIAL OILS,
Established 1856.
59 MARK LANE, LONDON, E.C.

Works: ROTHERHITHE, S.E.

"A revolution in the art of Urine Testing."—Medical Press & Circular.

ENDOLYTIC TUBES

"The Laboratory in the Waistcoat Pocket."

Wholesale Terms on application to the Sole Proprietors:

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

The Position of Salicylates.

In view of the recent progress which has been made in the manufacture of fine chemicals in this country it is of interest to mention the facts connected with the British manufacture of salicylates. It will be remembered that a month after the war broke out one well-known firm was able to put to its credit the fact that it was the first to supply British-made salicylic acid and its derivatives. Two years have elapsed since then, and we have now arrived at an interesting stage in the position, inasmuch as there are now about a dozen firms engaged in the manufacture, of whom several have a large output. At the same time doubt has been expressed as to whether the manufacture is taking place in this country on a sufficiently large scale. With the object of throwing light on this point, we addressed recently the following three questions to the English makers:

- (1) Is the scale of manufacture, so far as you know, sufficient to meet home demands, and could the output be increased if necessary?
- (2) Is the manufacture limited at present by difficulties in obtaining raw material or engineering plant?
- (3) Is it necessary for the Government to take any steps to ensure that the salicylate-industry is permanently established here?

To these specific inquiries we have received some very interesting replies, of which we give a selection below:

A.

(1) The output in this country of salicylic acid is rapidly increasing, and is already almost sufficient to meet home demands. The demand for export continues to withdraw from the home market a considerable proportion of the supplies, and no stocks can accumulate. The output could be increased if necessary in course of two or three months.

(2) The supplies of raw material are controlled by the Government, and we do not know the maximum limit in quantity that they will allow to be devoted to salicylic acid. Beyond slow delivery, there is no difficulty in getting the necessary plant.

(3) If the manufacture of salicylic acid and its derivatives is to continue in this country permanently, some form of protection, if only temporary, will be necessary. One of the chief reasons for this is that British manufacturers have not had time yet to come to a decision as to the best technical practice and design of plant.

B.

(1) While it is probable that the present manufacture of salicylic acid will be hardly sufficient to meet home

demands a little later on, yet an enormous amount of ground-work has been done, and, as far as we are concerned, we feel that we have sufficiently established the principles underlying successful manufacture, and are making further extensions and improvements that ought to make us independent of foreign competition later on.

(2) The delay referred to in paragraph (1) is entirely due to labour and engineering-plant difficulties.

(3) The Government ought to see that supplies of raw material are placed at the disposal of manufacturers on terms and conditions that will render the industry profitable to those engaged in it.

C.

(1) As far as our experience goes, the manufacture has been in an experimental stage for some time, but it is rapidly progressing, and we are sure that the output will in the very near future be sufficient to meet home demands; and, as far as we can see, there is likely to be a considerable superfluity soon, for the reason that the high prices ruling during the last few months have induced a number of people to commence manufacturing, and now that the prices have dropped it will not pay them to continue.

(2) The manufacture has been much hampered both by the difficulty in obtaining raw materials and more especially in obtaining engineering plant.

(3) In our opinion, we think that for a period of years German salicylates ought to be kept out of the country, so that, at any rate, those who have spent large sums of money in laying down plant for the manufacture of the product in this country may be recouped.

Other replies we have received are of the same tenor as the foregoing, and from interviews we have had with two of the largest makers it is obvious that the manufacture of salicylates in this country is becoming more firmly established day by day, especially as ample supplies of raw materials are now available. Our inquiries also brought out the opinion that there are already enough makers in the field to meet all demands that are likely to arise. Previous to the war, when Germany supplied the world's markets with salicylates, the acid, was selling at about 1s. and the sodium salt at 1s. 2d. per lb. The approximate annual consumption in this country then was between five and six hundred tons (this including the Overseas Dominions), but to-day the consumption is much less, especially of salicylic acid, its high price having led to the use of cheaper substitutes as a preservative, while the fact that medical men have been asked to conserve the stocks of salicylic acid and its derivatives has also led to a decreased use in pharmacy. A return to normal consumption may not take place for several years, as the cost of the chief raw materials is unlikely to decline to the pre-war prices of, say, 3½d. per lb. for carbolic acid and about 3l. per ton for caustic soda. Makers to-day pay about 2s. per lb. and 20l. per ton respectively. The present-day grievance of makers is that unlimited supplies of salicylates, salol, aspirin, etc., are allowed to be imported into this country, and the opinion is expressed that some of these products are German-made. We notice that our imports since the beginning of the year comprise about 51,000 lb. of salicylic acid and 193,000 lb. of sodium salicylate. These imports and the increasing production of the English makers have lately brought about a substantial decline in prices, and at the present time a sharp struggle is taking place for supremacy in this market, which should of itself be a deterrent to any new makers. It is probable that this infant industry will require some form of "protection," and it is suggested that assistance should be given for at least two years after the war; as to the form this should take, opinion is divided. Apart from salicylates, manufacturers are not tempted to invest capital in the manufacture of fine chemicals unless some assurance is obtained that the infant industry will be protected against "dumping" deliberately carried out to ruin home makers. As regards the extent of German

export trade in salicylates, no separate statistics have been published, the official figures including "salicylic acid and sodium salicylate; santonin, benzoic acid and sodium benzoate," the exports of which in 1912 were 1,066 tons and in 1913 1,284 tons.

"The Lancet" (1916, II., 329) deals with the question of the manufacture of fine chemicals in this country and states:

It is the great demand for munitions which makes it difficult to manufacture freely just now many well-known medicinals and chemicals. The curious fact is that the basis of munitions and of certain drugs is one and the same thing. To take an example, the salicylates have as their starting-point phenol, but so has picric acid. The urgency of things gives the first call to an explosive and not to a drug, and so salicylic acid, aceto-salicylic acid, and the salicylates are rare and dear. This, of course, is no reproach to our chemists; they cannot make munitions and drugs at the same time when the raw material of both is the same, and when to finish the war at the earliest possible date is the supreme consideration. . . . But we may reasonably expect that the lesson of the war is not going to be lost by the leaders of our chemical industries, and it is to be hoped that they will receive the support of our administrators. Materials, financial backing, and all-round fair dealing are the things that are asked, and our brains and workers will not fail us.

British Exports to Sweden.

A ROYAL PROCLAMATION has been issued, details of which we give on p. 37, prohibiting the exportation to Sweden from this country of all commodities not at present in the prohibited list. At the same time it is intimated that the War Trade Department will issue a general licence allowing exports of such commodities to be made on the presentation to the Customs of a Handelskommision guarantee in the proper form that the privilege will not be abused. The circumstances which have led to this action being taken are the following: Under the Customs (War Powers) Act, the Customs have power to challenge an exporter to produce evidence that he has taken all reasonable precautions to ensure that goods exported by him have reached the destination intended by him when the goods were shipped. And this power has been freely exercised in the case of non-prohibited goods, which are, of course, not subjected to the same scrutiny before shipment as prohibited goods. However, under the Swedish War Trade Law of April 17, 1916, it is illegal for an importer in Sweden to furnish information to an exporter in the United Kingdom as to the disposal of goods without the approval of the Swedish Government.

The exporter, therefore, is frequently obliged, in reply to a challenge from the Customs, to admit that he is unable to furnish the evidence required from him. The exporter in this country is thus exposed, through no fault of his own, and simply by the operation of Swedish law, to heavy penalties. The British Government very properly declines to see its powers of challenge rendered a dead letter without taking other measures to ensure that exports from the United Kingdom are properly disposed of. It has therefore been necessary to make all exports to Sweden, with a few minor exceptions, dependent upon the production of a guarantee, signed by the exporter and sanctioned and registered by the proper Department of the Swedish Government, to the effect that both the goods and their products will not be re-exported. These further restrictions, about the wisdom of which there is no doubt, are simply to prevent goods exported from the United Kingdom leaking through Sweden to Germany. Sweden, unlike other European neutral countries, has never recognised the principle of complete trade control by merchant guilds, such as is carried out by the Netherlands Oversea Trust in Holland and the body known as the "S.S.S."

in Switzerland. Both Norway and Denmark have also recognised the merits of the system for facilitating trade with this country. In future, Sweden will be rationed, and will be allowed to import commodities in sufficient quantities for her own normal requirements. British trade with Sweden in certain products has considerably increased since the outbreak of war, as may be seen from the following figures of our imports from and our exports and re-exports to Sweden in the first six months of the past three years :

Six months to June 30			
	1914	1915	1916
	£	£	£
Imports from ...	5,908,000	6,836,000	8,828,000
Exports to ...	3,756,000	3,874,000	5,207,000
Re-exports to ...	451,000	2,271,000	1,841,000

Our imports of Swedish produce, it will be seen, have considerably increased, much of the increased value no doubt being due to higher prices and higher freights. Exports of British merchandise have, on the other hand, declined in the current year, but re-exports (which are, of course, Colonial and foreign produce), although less in 1916, are still much in excess of those of pre-war days. These extended prohibitions make business more and more difficult and cumbersome, but at the same time they are absolutely necessary if the maximum economic pressure is to be applied to our enemies.

Departmental Committee on Poor-law Orders.

A SHORT REVIEW of the present position of the dispenser in this inquiry is of interest. The Committee has been approached by three or four bodies with somewhat different views and objects. The Pharmaceutical Society's policy is none too clear beyond that the Society desires that pharmacists shall hold all Poor-law dispenserships if possible. The Public Pharmacists' Association is attempting to prevent other than pharmacists being appointed; also advocates an increase in the salary of such officers. The Poor-law Officers' Association is preparing evidence to be placed before the Committee, asking for the provincial dispensers' tenure of office to be placed on the same footing as that of the metropolitan dispensers, and dealing with such matters as the length of the summer holidays, etc. So far as one can see, sufficient energy is not being put into the question of security of tenure. Take, for example, the London dispensers. At most of the large indoor institutions they rank only as assistant officers, their orders for drugs, etc., being subject to the ruling of the medical superintendent, while the steward and matron are principal officers answerable to the Guardians and the Local Government Board. Unless this state of affairs is remedied, any question of obtaining an increase of salary is not likely to improve permanently the position of the pharmacist. It would be better to make the position, and then the salary will follow. One question to be dealt with by the National Poor-law Officers' Committee closely affects the dispenser. An attempt is to be made to secure, for all appointments which require the sanction of the Local Government Board, the sanction for dismissal. While this is not brought forward on behalf of dispensers, it would give them security, along with other officers who are subject to approval only for appointment. Notice is also given by the President (Mr. Tom Percival) that the General Order of 1895 shall be considered with a view of giving protection to the Poor-law dispenser. Mr. Percival has a special knowledge of Orders referring to dispensers, and is in close touch with the chief official of the Local Government Board. Unless security of tenure is obtained now for all dispensers, through the Report of the Departmental Committee, the time is not far distant when all tenure will be removed for new appointments, in the metropolitan and other areas, by the same methods as have been meted out to collectors and other officers whose tenure has been removed in recent years.

Chemicals of Alleged Swiss Make.

INVESTMENT of German capital in Swiss chemical and pharmaceutical houses since the war began has increased considerably, while the establishment of branch houses and the erection of factories are contemplated by some German makers of coal-tar colours. It may therefore be necessary in future to investigate more closely the origin and constitution of all Swiss chemical firms who appeal for British business. We reported a few weeks since that the British Customs and Excise have seized certain chemicals shipped by a well-known Swiss chemical-maker to the Far East, the goods being of suspected enemy origin. It is notorious that a considerable quantity of so-called fine chemicals of German origin have been shipped *via* Switzerland to England, and at the prevailing prices there is every inducement to hoodwink the Customs at the various frontiers. Thus at Bellegarde, on the Franco-Swiss frontier, considerable quantities of goods have been held up by the French Customs, and in some instances confiscated. In the interests of buyers we suggest that the Foreign Trade Department should make judicious inquiries and publish a list of Swiss houses with whom business may be done. On this point British importers of chemicals could afford assistance in drawing up the statutory lists, as they are in the possession of facts not known to the British Consular officers abroad, upon whom we rely chiefly.

Glucose for Jam-making.

THE Board of Agriculture has issued a memorandum regarding the use of glucose in jam-making, which will probably bring inquiries for glucose. It is recommended that one part of glucose or corn-syrup be added to two parts of sugar, and the weight of the syrup and sugar should equal approximately the weight of the fruit used. In regard to the supply of glucose it is stated :

Although glucose is prescribed as a food for invalids, and is used to a large extent in confectionery, it has not come into common use in domestic cookery. With the object of popularising its use at the present crisis, therefore, the Board have been in communication with the principal manufacturers and importers, and have ascertained that there are considerable stocks of corn syrup in the country. The wholesale price is at present less than two-thirds of the wholesale price of sugar, and corn syrup can be obtained in 6-cwt. barrels, which should permit it to be sold retail at not more than 4½d. a pound. It can be obtained from some manufacturers in 14-lb. tins at about that rate, and from others in 1-cwt. kegs.

Manufacture of Phenol in Germany.

DR. F. RASCHIG, the well-known technical chemist of Ludwigshafen, recently published a paper in the "Zeitschrift für Angewandte Chemie" dealing with the recovery of phenols from coal-tars. This paper has been translated and circulated by the Ministry of Munitions among English coal-tar distillers. The paper purports to describe a special form of distilling-apparatus, devised so as to extract more phenols from German tar, which is, of course, not nearly so rich as English tar in these bodies. Raschig claims that German gasworks tar and coke-oven tar could yield annually about 6,000 tons of crystalline carbolic acid, whereas only 2,000 tons is at present recovered. Bearing in mind the importance of the matter from a military point of view, one is allowed to doubt whether this publication is entirely *bona fide*, as the German authorities might well object to a German chemist publishing really valuable information which would reach this country. The importance to Germany is claimed to be the possibility of increasing the output of phenol now that the English market is closed to her, and of preparing for the expected export trade to neutral countries when peace is declared.

DRUGS, dyes, chemicals, and medicines valued at \$2,066,000 were imported into Canada during April, against \$786,000 and \$873,000 in April 1915 and 1914 respectively.

IMPORTATION OF SOAP.—The High Commissioner for Australia in London received a cable on August 19 advising that the prohibition of the importation of soap into Australia does not apply to soap imported from the United Kingdom. [This confirms what we reported on p. 47 of last week's issue.—EDITOR.]

A Symposium on Medicinal Plants.

Our Netherlands correspondent sends us details of an exhibition of medicinal plants and some interesting information on the cultivation of vegetable products which arose therefrom.

AN EXHIBITION OF MEDICINAL PLANTS was held in Utrecht on July 2-5 and again on July 20-22 on the occasion of the annual meetings of the Dutch Medical and Pharmaceutical Societies. The exhibition was arranged in the garden and several rooms of the new pharmaceutical laboratory of the Utrecht University. A great many medicinal plants that grow wild in Holland or can be cultivated there were to be seen in the garden, and in the different rooms there were interesting collections of dried drugs and preparations made therefrom, herbarium specimens, and pharmaceutical plants in pots. Vases with flowers of medicinal plants adorned the rooms. In the corridors lantern-slides were shown connected with the cultivation of drugs in the Netherlands and in other countries.

In connection with these exhibitions the "Pharmaceutisch Weekblad" published a special number devoted to the cultivation of medicinal plants. All the articles in the number related to the cultivation or gathering of drugs or to the products that could be made of them.

The first article was by Professor P. van der Wielen, and gave part of the text of a Dutch Herbal of the Middle Ages—a manuscript on astronomy and astrology, on physics and on medicinal drugs. The last part was of exceptional interest, as showing what was known in Holland about galenic pharmacy in about 1300.

THE GERMINATION OF SALEP-SEED.

A. J. van Laren, the horticulturist of the botanical garden of the Amsterdam University, who recently published a series of articles on the cultivation of medicinal plants as a hobby for pharmacists, physicians, and other persons, followed with an article on the cultivation of salep from seed. Salep, the dried tubers of various species of *Orchis*, is official in the Netherlands and German Pharmacopœias. It has mucilaginous and nutritive properties, and is somewhat akin to tragacanth. The greater part of the salep of commerce comes from Anatolia. In Germany salep is occasionally collected, but the quantity thus obtained is insignificant. The importance of salep is increasing, especially as a foodstuff. So long as the plant can only be spread by means of the turnip, however, the cultivation cannot easily be extended, and that is why Mr. van Laren calls attention to the important fact that if salep could be propagated by means of seed, much more could be made of this product.

The orchis species live in symbiosis with a fungus. Salisbury was the first person (1804, "On the Germination of the Seeds of *Orchidea*," "Trans. Linn. Soc.," VII.) who disputed the general opinion that seeds of orchis species have no power of germinating. Mr. van Laren gives further notes of what has been written about the cultivation of orchis species, from which it appears that symbiosis with fungi is generally thought to be absolutely necessary. Dr. Hans Burgeff ("Die Wuzzelpilze der Orchideen"), 1909, contends that, even if the fungi are growing in the neighbourhood of the salep-plants in sufficiently large quantities, the seed is incapable of germination. Mr. A. Grevenstuck, of Baambrugge (near Amsterdam), has, however, repeatedly observed in his own garden that *Orchis latifolia* sowed itself. With regard to the fact that it has appeared possible to cultivate several tropical orchis species from seed in the presence of the fungi they require, Mr. van Laren urges the extension of the experiments to salep-plants, as the importance of these plants has largely increased of late.

DUTCH MEDICINAL PLANTS.

With regard to the scarcity of several drugs of foreign origin, Dr. H. Pinkhof and Mr. L. H. van Berk mention several Dutch wild plants that have been neglected of late, but which formerly were credited with medicinal properties. Dr. Pinkhof mentions the root of *Symphytum officinale*, an old remedy for the treatment of wounds; the seeds of *Plantago*, which form an excellent laxative; and *Erodium cicutarium*, the liquid extract of which is largely employed, with success, in Holland at present in the place of hydrastis.

Mr. van Berk collected for the exhibition a number of Dutch medicinal plants, which he arranged according to their pharmacological properties. As laxatives of inland origin, he mentions folia fraxini (in the form of a decoction), the rhizome of *Polypodium vulgare*, cortex medianus sambuci, radix lapathi acuti (the root of *Rumex obtusifolius*), and cortex rhamni frangulæ. As expectorants, Mr. van Berk mentions radix saponariæ (*Saponaria officinalis*),

folia farfaræ (*Tussilago Farfara*), and herba et radix euphorbiæ peplus (in a decoction 5:1,000) as substitutes for ergot of rye and hydrastis. Mr. van Berk also calls attention to an infusion or a liquid extract of *Erodium cicutarium*, and to the very common plant *Senecio vulgaris*, which was first recommended by the late Dr. W. Murell, of the Westminster Hospital, London, for this purpose. Comparative physiological experiments made by Dr. Storm van Leeuwen with regard to the activity of tinctures of ergot of rye, senecio-leaves, senecio-root, and erodium-plants, all of them made in the proportion of 1:5, showed that ergot of rye and erodium are of about equal activity; herba senecionis was more active, and radix senecionis appeared to be the most active of all. The active principle of senecio is nearly insoluble in water. The experiments with these plants are being continued. At the end of his article Mr. van Berk further calls attention to summatis sarothamni as a substitute for strophanthus and digitalis, and to *Polygonum aviculare* as a remedy for diabetes.

VALERIAN-ROOT.

Professor P. van der Wielen, in "Some Leaves from a Laboratory Journal," gives some interesting points regarding valerian-root. When this root is freshly gathered the younger roots show a much lighter colour than the older ones; the younger roots are nearly colourless. In the commercial samples of valerian-root this difference can no longer be seen, as under the influence of a ferment, an oxidase, the originally white roots have also assumed a dark colour. Fresh valerian-root has practically no smell; this is only developed during the process of drying under the influence of a ferment, which may be the same or different from that which is the cause of the darkening of the root. If the enzyme is killed by stabilising the drug before drying it, the root only develops in a small degree the typical smell of valerian. It still contains the substances, however, which can yield the essential oil to which this smell is due, and when an infusion of the stabilised root is warmed with a few drops of hydrochloric acid the originally nearly inodorous liquid soon acquires the typical smell of valerian. The same effect takes place in other galenicals made from fresh and stabilised valerian-root by mixing the juice or the pulp with alcohol. Clinical experiments of French scientists have shown that fresh valerian-root in which the original active principles have not yet been decomposed is to be preferred to the dried root, and Professor van der Wielen concludes that valerian-preparations should henceforth be made from the stabilised drug.

DIALYSED DIGITALIS.

For the preparation of dialysed digitalis the leaves should first be stabilised. If this has been done the further treatment is a very simple one, only requiring a simple apparatus, consisting of a funnel with a plug. A piece of parchment is placed in the funnel in the form of a filter: the pulp of the stabilised fresh leaves is placed on the filter, and 10-per-cent. alcohol is run between the funnel and the parchment filter. For a quantity of 250 grams of pulp about 25 grams of spirit is required. After four days the alcohol is removed and run into a flask that has been placed under the funnel. The 10-per-cent. spirit is then substituted by 25 grams of 20-per-cent. spirit, after four days by 30-per-cent. spirit, and so on until at last the dialysation takes place with 90-per-cent. spirit. After the spirit has been renewed from nine to eleven times the pulp is practically entirely exhausted. If the enzymes are killed before the roots are dried, this darkening under the influence of the oxidase does not take place, and in roots treated in this manner the difference is easily seen.

THE CULTIVATION OF PEPPERMINT

from seed has not met with success. Professor van der Wielen tried to cultivate peppermint from runners of the Mitcham *Mentha piperita*, but these endeavours failed; the experiments will be continued after the war. In the meanwhile, however, seed of *Mentha piperita* has been bought in Holland and Germany. As it is generally thought at present that *Mentha piperita* is a hybrid of *M. aquatica* and *M. viridis*, seedlings of various types could be expected if the seed is really that of *M. piperita*. This has actually occurred, and in the exhibition more than twenty mentha types were shown obtained from the seed of *M. piperita*; not one of the plants, however, has the genuine smell of peppermint.

ELDER-BERRIES.

These are used in Holland for the preparation of a jelly and a syrup. According to the formula of the Dutch Pharmacopœia, the rob sambuci should be made from the ripe berries. Professor van der Wielen remarks, however, that berries which are not entirely ripe yield a jelly of a much better colour. According to the formula of the Supplement

to the Dutch Pharmacopœia, syrupus sambuci should be made from the cold-pressed juice of the ripe berries. This preparation has a disagreeable taste and colour, but a syrup with a better taste than syrupus rhœadæ, and a better colour than raspberry syrup, can be obtained by boiling berries that are not quite ripe with a small quantity of water (one-tenth of their weight), and dissolving 3 parts of sugar in 2 parts of the warm juice that is pressed from the mass after boiling. The juice obtained in this way often contains rather a large quantity of pectin, which sometimes causes the syrup to jelly. It is therefore better to dilute the juice previously with about a third part of its weight of water, or to boil the berries with two-fifths of their weight of water and to make the syrup from this juice. The juice can easily be sterilised, and then keeps for a long time. The syrup is an excellent one for use in beverages. From fermented juice of elder-berries an excellent wine can be made as follows:

Press out the juice from 1½ kilo. of elder-berries not quite ripe, boil with a litre of water; press and treat the residue in the same manner with another litre of water. The liquids are mixed, 1 kilo. of sugar added, and the whole set aside to ferment, which is started by adding a little yeast. A temperature of 20° to 25° C. is best for this process. After fermentation is finished the product is stored in a cool cellar for six months.

A slightly acid wine is obtained, resembling Bordeaux. It contains from 7 to 10 per cent. of alcohol. If the alcohol is increased to 14 per cent. by adding more spirit, and the sugar increased to give 30 per cent. of extract, a wine resembling Malaga is obtained, such as is employed in the Dutch Pharmacopœia for the preparation of cinchona, condurango, and rhubarb wines.

ERODIUM EXTRACT.

Extractum erodii cicutarii liquidum, which has been used with excellent results in Holland in the place of hydrastis extract, is made by macerating 100 parts of the powdered herb with 60 parts of a mixture of equal parts of spirit (90-per-cent.) and water. After twenty-four hours' maceration the mass is transferred to a percolator and percolated with the mixture of spirit and water until 80 parts of percolate has been collected. This portion is reserved, and the percolation is continued until the exhaustion is complete and the percolate is colourless. The second portion of the percolate is evaporated down to 20 parts and dissolved in the first percolate. The extract is allowed to stand in a cool place for a fortnight and is then filtered. Hydrastis rhizome has been cultivated in the botanical garden of the Amsterdam University, and was found to contain 2.8 per cent. of hydrastin.

The Dutch Colonial Institute.

THE Report of the Colonial Institute at Amsterdam for 1914, which has just reached this country, shows that some progress is at last being made with the erection of the Institute buildings. The site, which is the old Oosterbegraafplaats, is at the corner of Maurits Kade and Linnaeus Straat, and the main building will have a front of about 175 yards on the former and 76 yards on the latter. This building will house the Administrative Offices, Economic Section (which is practically the Haarlem Museum transferred to new quarters), and the Anthropological Section. Only one other department is contemplated at present—viz., that of Tropical Hygiene, which will be housed in a special building to be erected close to the University Institute of Hygiene, with which it will work in close co-operation. The site, which leaves room for considerable extension in the future, was handed over to the Institute authorities on March 30, 1914, and a beginning has been made with the erection of the Tropical Hygiene building, but work has been delayed first by a strike and later by the mobilisation which took place on the outbreak of war. The work of the Institute is meanwhile being carried on in temporary quarters. The capital sum of about 1,600,000fl. (fl.=ls. 8d.) is apparently available for the building and installation of the Institute, and subscriptions are still being received. The ordinary expenditure of the Institute in 1914 was 91,650fl., but for 1915 the estimate has had to be reduced to 78,000fl., owing to reductions in subsidies due to war economies. Of this the Colonial Office provides 32,500fl. and the City of Amsterdam 19,500fl. The Report also gives a general account of the work done by the staff of the Institute during the year. So far as the Economic Section is concerned this is carried on by the director, Dr. Dekker, on much the same lines as those developed by the late Dr. Greshoff at the Haarlem Colonial Museum. Lectures are given, collections of colonial products are sup-

plied to schools, prizes are awarded for essays on colonial matters, technical inquiries regarding colonial products are answered, and a certain amount of laboratory-work on colonial products is done. In 1914 the latter included work on the geraniol-content of citronella oil, adulterated saffron, cocoa and cocoa-husks, and a complete examination of Para rubber-seed. The Institute is issuing occasional publications, of which two have so far appeared from the Economic Section—viz., the Report on the work of the Section for 1913 and an elaborate account by Dr. Sirks of the history of research in natural science in the Dutch colonies. This volume is illustrated with portraits of the scientific men whose work has brought international fame to Buitenzorg and other Dutch colonial centres of research. Among them are Teysmann, Junghuhn, de Vrij, Treub, Greshoff, and others whose names are familiar to all interested in such work. Few, if any, Britons will care to read through Dr. Sirks's 300 pages of solid Dutch, and we venture to suggest that the Colonial Institute might well issue a translation of this work in French or English so that the many admirers of the scientific work done by the Dutch in the East Indies might have an opportunity of reading this account which is not available to them in the original. Finally, reference may be made to the fact that the Colonial Institute has issued a general index to the Bulletins and other publications of the former Colonial Museum at Haarlem. This is a most useful book, as it is not only an index to these valuable publications, but gives a complete list of them with prices and particulars of how they can be obtained.

Dispensing for Dependants.

THE Naval and Military Dependants (Medical Treatment) Committee is issuing to chemists an intimation that the scheme for free dispensing of medicines for the dependants of soldiers and sailors is to cease at the end of this month. The letter is as follows:

Dear Sir,—It will be remembered that at the inception of the scheme at present in operation for the provision, where necessary, of free medical treatment (including medicine) to dependants of soldiers and sailors, the National Relief Fund Committee undertook to bear the cost of the medicines provided under the scheme. The duties of the Fund relating to naval and military distress have, however, now been transferred to the War Pensions, etc., Statutory Committee, constituted under the Naval and Military War Pensions, etc., Act, 1916, and in connection with the transfer the question of the provision of the financial support essential for the continuance of the scheme has necessarily arisen.

The matter has accordingly been the subject of correspondence with the War Pensions, etc., Statutory Committee, and, in view of the fact that that Committee do not see their way to provide the funds necessary for the continuance of the scheme, this Committee have no option but to take steps to discontinue it. Local Committees are accordingly being instructed not to issue any more of the medical books furnished to them for use under the scheme.

With regard to cases where books have already been issued, doctors have been advised that prescriptions for free medicines may be issued until the 31st instant, but not after that date. Prescriptions issued on or before the 31st instant will therefore be accepted for payment by the Committee, who will not, however, be in a position to accept any bearing a later date.

Yours faithfully,

JAMES RAE.

P.S.—The Pharmaceutical Society, who, it will be remembered, priced the prescriptions, will be glad to receive not later than September 6 all outstanding prescriptions. The cordial co-operation of pharmacists in this matter is invited in order that the special staff engaged by the Society, at their own cost, to deal with "Dependants" prescriptions may be dispensed with at the earliest possible date.

The Duke of Devonshire has also issued a letter of thanks to doctors and chemists for the generous spirit which prompted the professions to offer their gratuitous service in connection with the scheme, and for the manner in which they have co-operated to ensure the smooth working of the scheme.

QUININE SULPHATE and all alkaloids or salts of cinchona-bark are now subject to a duty of 16½ per cent. *ad valorem* on importation into Jamaica, where they were formerly free of duty.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Birmingham.—The Insurance Committee, instead of deducting 2½ per cent. from chemists' monthly accounts in respect of the administrative expenditure of the Pharmaceutical Committee, and balancing at the end of the year, as suggested, has decided to deduct the greater part of the annual expenditure from the August payments. This has caused some chemists to anticipate that the estimated amount of 2.2 per cent. will ultimately be exceeded; but, such is not likely to be the case. Though there may be some further deduction at the end of the year, it may be taken for granted that the sums deducted from the August payments represent at least three-fourths of the year's expenditure.

Gloucester.—The Clerk laid before the last meeting of the Insurance Committee the correspondence between himself and the Military Representative on the recruiting of chemists, and the decision previously arrived at (see *C. & D.*, August 5, p. 48) was reaffirmed. The Commissioners have written regarding the liability to military service of certain dispensers employed by a local firm, and the Committee consider it advisable to retain the services of the manager and one dispensing assistant at each of the two shops in question.

Plymouth.—The report of the Pharmaceutical Service Sub-Committee (*C. & D.*, July 22, p. 47) was submitted to the last meeting of the Insurance Committee, who do not think the Sub-Committee have gone far enough into the matter of analyses, and resolved to send the report and a statement of their own views to the Commissioners. The analyst who carried out the work for the Sub-Committee has resigned, and Mr. T. Tickle, Ph.C., public analyst for Exeter (who previously held the appointment for Devonport), has been appointed for the duration of the war.

Southampton.—The balances due to the chemists for 1915 were paid on August 10. These do not include the payments for sanatorium and temporary residents.

West Bromwich.—At the last meeting of the Pharmaceutical Committee, the Checker's report (Smethwick Joint Scheme) for the quarter ended December 31, 1915, was considered. The publication of the report has been delayed owing to unavoidable and uncontrollable circumstances. The chief items noted were:

Cost of dressings for surgery use, various doctors, 10s. 9d., 9s. 5d., 11s. 9d., 7s. 0½d.; expensive mixture costing 2s. 4½d. ordered nine times; five scripts for a mixture containing potassium bromide 480 gr.; eleven scripts for an expensive liniment containing belladonna; 1½n. methyl. salicyl. co. 2 oz., six scripts from one doctor, five scripts from another; many scripts for mixtures containing sodium salicylate 4 dr.; acid. acetosal. 15-gr. powders frequently ordered in dozens and half-dozens; three and even more bandages at a time; ten leeches, 5s.; glyce. bellad. 4 oz.; mixture containing acid. acetosal. 5iss., five scripts.

Chemists have now been paid for July prescriptions at the rate of 5d. per script, plus the balance due from May accounts.—A meeting of the Pharmaceutical Association is to be held at Mr. Gordon Griffith's, 351 Lower High Street, on August 29, to receive the Pharmaceutical Committee's report for 1915-16, to hear a paper by Mr. James Lock (Chairman of the Pharmaceutical Committee) on the establishment-charge, and to consider a minimum-price scheme.

Worcestershire.—The Insurance Committee, at its last meeting, adopted the report of the Special Sub-Committee, which, after conference with the Pharmaceutical Committee, recommended that certain chemists be exempted from military service. The Committee was asked to approve an estimated expenditure of 50l. for checking prescriptions for the half-year. The Chairman, however, expressed himself as being far from satisfied with the way in which the work had been done. Their prescriptions had been neglected and mixed up with those belonging to another county, and the accuracy of some of the checking was open to considerable suspicion. He heard there was now a new head to the Bureau, and hoped that conditions would improve. The only thing that was prompt and regular was the Bureau's request for payment. The Committee finally approved the estimated expenditure.

SCOTLAND.

Aberdeenshire.—The Insurance Committee met on August 18 in the County Hall, Aberdeen, Provost Leask (Peterhead) presiding. The Clerk reported receipt of a letter from the Commissioners regarding Sanatorium Benefit and limiting the medical comforts in domiciliary treatment to

milk, butter, eggs, and beefsteak. This was sent to the Sanatorium Benefit Sub-Committee for consideration and report. The Medical Benefit Sub-Committee called attention to excessive prescribing, and have forwarded to the Panel and Pharmaceutical Committees the Checking Bureau's report and the Commissioners' letters on the subject, so that action may be taken under Regulation 40. It was decided, on the recommendation of the Sub-Committee, to leave to the Local Tribunals the question of the exemption of assistants from military service.

Arbroath.—At the last meeting of the Burgh Insurance Committee, the Medical Benefit Sub-Committee reported on correspondence with the Commissioners regarding certain items in chemists' accounts to which attention had been called by the Central Checking Bureau. The specified instances were exceptional cases requiring special treatment. In regard to a general complaint the Sub-Committee will await the next quarterly report from the Bureau. The Convener of the Sub-Committee said that the question of medicine for insured persons is likely to be a burning one between the Commissioners and the Committee, as the former seem to have the idea that the doctors have been too generous in their treatment of the insured. The Sub-Committee, however, are quite satisfied that there is no reason for any such suggestion.

WALES.

Cardiff.—The Pharmaceutical Committee met on August 22, when Mr. Hagon was unanimously elected as the Committee's representative on the Insurance Committee, in place of Mr. Jabez A. Jones, resigned. Among other matters discussed was the payment for poison-bottles when not specially marked by the chemist on prescriptions dispensed. Another subject was a circular which had been sent to individual panel chemists, but not to the Committee, to the effect that only grey bandages were to be supplied to insured persons unless specially ordered by the doctor. In regard to these matters Messrs. Mallison and Phillips are to interview the Pricing Committee, and it was decided to await their report before taking any action.

Note.

THE AUGUST DRUG TARIFF has just been issued. A number of alterations have been made. It occurred to us to compare the prices of a few of the drugs influenced by war conditions, and the following table shows the comparison of August prices with those official in January. These indicate that the manufacturing difficulties have been overcome in the case of the salicylates and bromides, but that the manufacture of acetanilide, phenacetin, phenolphthalein, barbitone (veronal), and silver nucleinate have not been taken up on a sufficient scale or that there is some difficulty in regard to the supply of raw or intermediate products for their manufacture. The prices of lanoline, iodine, morphine, salicin, and santalin, among others, have not varied during the year.

	January	August
Acetanilide	8s. 6d. lb.	9s. 6d. lb.
Acetylsalicylic acid ...	4s. 3d. oz.	3s. 2d. oz.
Ammon. ichthyosulph. ...	7d. oz.	6d. oz.
Argent. nucleinas	2s. 10d. oz.	4s. oz.
Atrop. sulph.	23s. 6d. dr.	8s. 3d. gram
Barbitone	4s. 9d. oz.	6s. 8d. oz.
Benzamine lactate	9s. 6d. dr.	7s. dr.
Bismuth. carb.	15s. 3d. lb.	15s. 6d. lb.
Cbloral hydras	19s. lb.	1s. 5d. oz.
Chloroform	3s. 8d. lb.	4s. lb.
Digitalis fol.	2s. 10d. lb.	3s. 4d. lb.
Glycerin	1s. 5d. lb.	Same
Hexamine	7d. oz.	6½d. oz.
Hydrarg. subchlor.	7s. 10d. lb.	8s. 2d. lb.
Liq. formaldehyd.	11d. lb.	1s. 3d. lb.
Magnes. sulph.	35s. cwt.	33s. cwt.
Methyl salicylas	1s. 2d. oz.	1s. 3d. oz.
Napbthol	2s. 10d. oz.	1s. 9d. oz.
Opium pulv.	3s. oz.	3s. 2d. oz.
Paraldehyde	1s. 8d. oz.	1s. 3d. oz.
Phenacetin	4s. 9d. oz.	7s. 8d. oz.
Phenazone	6s. 8d. oz.	6s. oz.
Phenolphthalein	3s. 4d. oz.	7s. 2d. oz.
Potass. brom.	28s. 6d. lb.	8s. 6d. lb.
Quin. sulph.	4s. 2d. oz.	3s. 9d. oz.
Salol	4s. 9d. oz.	2s. 10d. oz.
Sodii salicylas... ..	23s. 6d. lb.	16s. 6d. lb.
Thymol	3s. 10d. oz.	3s. 4d. oz.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

REGISTRATION OF BUSINESS NAMES BILL.

The Registration of Business Names Bill, which has already passed the House of Lords, was down for second reading in the House of Commons on August 22, but in accordance with the statement made recently by the Prime Minister it will not be proceeded with until after the recess.

HOSPITALS AND SPIRIT-DUTY.

Among the Votes in Supply which have just been passed by the House of Commons is one for the sum of 10,000*l.*, which is described as grants to voluntary hospitals in respect of duty on spirits. This represents the amount of duty paid by those institutions on alcohol used in the preparation of medicines.

IRISH TIME.

The House of Commons on August 17 passed the Time (Ireland) Bill, which is to do away with the difference between Irish and English time. Mr. Healy objected to the Bill on the ground that, whereas the Daylight Saving Bill prolonged the hours of daylight, this Bill would prolong the hours of darkness, to the great disadvantage of the agricultural population. He was also informed that it would involve 2,000 train-time alterations. But, as the other Irish members had withdrawn their opposition, he would not stand out against the experiment.

END OF SUMMER TIME.

The Home Secretary informed Sir R. Pearce, M.P., in the House of Commons on August 22, that the three hours following midnight (Summer time) of the night of September 30-October 1 are included in the Summer-time period. The change does not take place until 3 A.M. Summer time, or 2 A.M. Greenwich time, on October 1. At that hour the clocks will be put back one hour, so that the period 2-3 A.M. Summer time will be followed by a period 2-3 A.M. Greenwich time, and they can readily be distinguished by the addition of the words "Summer time" or "Greenwich time" as the case may be.

SULPHATE OF AMMONIA.

Mr. Acland informed Mr. Basil Peto, M.P., in the House of Commons on August 21, that the Board of Agriculture has heard of a few cases in which farmers have experienced difficulty in obtaining supplies of sulphate of ammonia on the terms recently announced as having been offered by sulphate-of-ammonia makers (see *C. & D.*, August 19, p. 34). The Board has no reason to think that the arrangement accepted by the makers is not being observed, but they would be bound to consider what action could be taken if it were found that makers were not allowing a fair proportion of their make to be used for agricultural purposes on the terms recommended.

COCAINE AND NOVOCAINE.

As announced in the last issue of the *C. & D.*, the Home Secretary stated, in reply to a question in the House of Commons on August 17 by Mr. MacCallum Scott, that he sees no ground, as at present advised, for applying the restrictions as to cocaine to practitioners duly registered under the Dentists Act. If registered dentists were prevented from using cocaine the supply of novocaine for the unregistered would be made all the more difficult. Registered dentists are persons who are registered to receive cocaine, and unregistered dentists are not registered.—Mr. MacCallum Scott asked whether it was the case that they have not a list of unregistered dentists and cannot get a list of those to whom cocaine is supplied.—The Home Secretary: Any person can call himself an unregistered dentist.

Mr. Keating asked the Home Secretary on Wednesday if his Department is recommending novocaine in lieu of anæsthetics containing a small percentage of cocaine; if he is aware that this is a German product controlled by German interests in this country, and that British manufacturers of local anæsthetics are suffering loss of trade; that, in one particular case, the owner of the business is serving at the Front, and the effect of this Regulation will mean the ruin of his business; and will he take steps to inquire into the matter and grant permits to such manufacturers under proper supervision.—The Home Secretary replied that novocaine is a local anæsthetic which is not less efficient than cocaine. It is true it is a German invention, but the German patent has been suspended, and it is now being manufactured in England by a British firm, and on behalf of the National Health Insurance Commission. Cocaine may still be used by the persons and under the conditions prescribed by the Regulation, and applications for permits from manufacturers will be considered.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., August 24, 5.30 p.m.

THERE is an absence of features in the chemical and drug markets this week, buyers still being chary of making purchases beyond their current requirements in view of the weakening tendency in prices generally. Quinine has been dealt in more freely in second-hands for export, but at rather lower prices. Among other weaker products we include acetanilide, potashes, salol, balsam Peru, celery-seed, and lycopodium; phenacetin and barbitone are rather dearer. Bergamot oil is very irregular but dearer, orange and peppermint are firm, and lemon is dull.

Higher	Firmer	Easier	Lower
Barbitone	Castor oil	Acetanilide	Celery-seed
Bergamot oil	(Calcutta)	Balsam Peru	Creosote (ex
Caraway-seed		Beta-naphthol	beechwood)
Phenacetin		Bleaching-powder	Elemi
		Citronella oil	Honey
		(Cey.) (e.i.f.)	Lycopodium
		Ergot	Senna (Tinn.)
		Ipecacuanha	and pods
		Potashes	Tartaric acid
		Quinine	
		(see, hands)	
		Vanillin	

Cablegram.

NEW YORK, August 23.—Business in drugs is active. Mexican sarsaparilla is lower at 11c. Copaiba balsam has been advanced to 63c. and balsam tolu is lower at 36c. American saffron-flowers are easier at \$1.75c. Belladonna-leaves are lower at \$1.65, and arnica-flowers are also cheaper at 55c. Opium, peppermint oil, and menthol are unchanged.

AMERICAN DRUGS.—The following are a few current quotations for barks, roots, leaves, etc.:—*Barks*: Blackhaw of root, 1*s.* 2*d.* on spot; euonymus, 1*s.* 9*d.* c.i.f. to arrive; wild cherry, 7*d.* net to arrive. *Roots*: Gelsemium, 7*d.* on spot; golden seal, 23*s.* c.i.f. to arrive; jalap, 8*d.* net on spot; culvers, 8*d.* spot; Mexican sarsaparilla, 10*d.* spot; senega, 2*s.* 3*d.* c.i.f. to arrive; serpentary, 1*s.* 8*d.* spot.

AMMONIA SULPHATE.—Quiet. Home trade prices are 15*l.* for August-September and 15*l.* 10*s.* for October-May. Export prices are: London 25-per-cent., 16*l.* 17*s.* 6*d.* to 17*l.* per ton net, naked at works; Hull 24-per-cent., 17*l.* 10*s.*; Liverpool, 17*l.* 15*s.*; Leith, 18*l.* spot and 18*l.* 5*s.* forward, less 3½ per cent. in bags f.o.b.

ANISEED is steady at 54*s.* per cwt. for good Spanish on the spot.

ANISE OIL (STAR) is slow of sale at 3*s.* 5½*d.* per lb. for "Red Ship" brand on spot.

ANNATTO.—Sales privately of good East Indian have been made at 9*d.* per lb.

ANTIMONY.—Spot sellers quote Chinese crude at 40*l.* per ton, and to arrive 35*l.* c.i.f. is quoted; business has been done at both these prices, which apply to large parcels only.

BALSAM PERU.—Small lots on the spot have been selling at from 14*s.* 3*d.* to 14*s.* 6*d.*, and for forward shipment from 14*s.* 6*d.* to 15*s.* c.i.f. is quoted.

BARBITONE is tending dearer at from 75*s.* to 80*s.* per lb., according to holder.

BERGAMOT OIL.—During the past fortnight fair sales have been made on the spot at from 18*s.* to 21*s.*, but from 23*s.* 6*d.* to 24*s.* is now quoted for finest quality. C.i.f. prices are very irregular at from 25*s.* to 30*s.* per lb. A report from Sicily dated August 12 states that only a very small quantity is now left from the last production, and the very insistent local demand, though not important as to quantity, was sufficient to render holders and producers almost un-

approachable. At every fresh inquiry sellers have increased their demands by about 10 per cent. on the last price paid. It is impossible to give an exact quotation.

BETA-NAPHTHOL is offered at 8s. 6d. per lb.

BLEACHING-POWDER in small lots is offered at 23l. per ton, being easier.

CAMPHOR MONOBROM.—To arrive 16s. 8d. per lb. is quoted, but for spot delivery prices vary between 20s. and 24s. 6d. per lb.

CAMPHOR (REFINED).—Spot sales of Japanese slabs have been made at 2s. 6d. per lb., and to arrive 2s. 4½d. c.i.f. is quoted for September-October shipment.

CANARY-SEED.—There has been a fair business at 60s. to 62s. per quarter for ordinary to good Morocco.

CARAWAY-SEED is very scarce, and is quoted nominally 105s. per cwt. for fair Dutch.

CASTOR OIL.—Good seconds Calcutta is firmer at 4½d. to 5d. per lb. in Liverpool. The value of English medicinal is from 55s. 6d. to 60s. per cwt. in barrels in London.

CELERY-SEED is cheaper, new crop French offering to arrive at 62s. 6d. per cwt. c.i.f., and on the spot the value is about 110s.

CHLORAL HYDRATE is obtainable at 9s. 6d. per lb. for crystals in bond.

CINCHONA.—At the tender to be held at Amsterdam on August 23, 13,006 packages Java manufacturing bark weighing 1,073,778 kilos, will be on offer, the quinine-content being equivalent to 67,230 kilos. The average percentage of quinine in the bark is 6.26. At the auction of pharmaceutical bark to be held on August 24, 1,843 packages (1,141 bales and 707 cases) will be offered, weighing 103,022 kilos, the quinine-content being 2,777 kilos. In the London drug auction sixty-four bales of Guayaquil Crown quill were bought in at 1s. to 2s. per lb., and ten serons of broken Loxa quill at 1s. 6d. Four bales of ordinary Guayaquil quill from another catalogue sold at 8d. per lb.; twenty-one bales of thick flat Cartagena were bought in at 1s. 3d.

CITRATE OF LIME AND CONCENTRATED LEMON-JUICE.—This year's production in Sicily reaches about 11,000 tons, against 8,000 in 1914-15. The Camera Agrumaria, it is said, will have to carry forward at least 3,000 tons at the end of the campaign. Fortunately the new lemon-crop is very limited, and this will allow the surplus stock of this year to be got rid of during the next campaign. The production of concentrated juice has been insignificant, but it is expected that the law will be amended so that producers of juice may enjoy an "over-price" in order to be compensated for the higher cost. The Camera Agrumaria quotes: Citrate of lime at 275 liras per 100 kilos., basis 64 per cent., and concentrated juice at 860 liras per pipe of 130 gallons (first cost).

CITRIC ACID is unchanged at from 3s. to 3s. 1d. per lb., with rather more doing.

CITRONELLA OIL is quiet, with Ceylon in drums offering at 2s. per lb., and to arrive at 1s. 7d. to 1s. 8d. c.i.f. for the usual native brands. Java is offered at from 3s. 7d. to 3s. 9d. as to quantity.

CLOVE OIL.—The quotation is from 5s. 10d. to 6s. per lb., but distillers are extremely busy, and find it difficult to quote for the remainder of this year.

COD-LIVER OIL.—There is nothing new to report in this market, prices being nominally unaltered at from about 500s. to 550s. per barrel for finest non-congealing Norwegian oil. On the spot, prices vary considerably at from 380s. to 400s. for 1915 oil, and for non-congealing Newfoundland from 350s. per barrel and upwards is quoted.

COPPER SULPHATE is unaltered at 49l. per ton for the usual Liverpool brands.

CORIANDER-SEED is firm owing to short crop in Morocco and small stocks on the spot. Common quality is quoted 23s. and good 26s. per cwt.

CREAM OF TARTAR still very dull at from 187s. 6d. to 190s. per cwt. for 98 per cent. and 99 to 100 per cent. powder respectively.

CROSBOTE EX BEECHWOOD is offered at the lower price of 8s. net.

CUMIN-SEED.—There is no stock on the spot, but parcels on passage have been sold at 75s. per cwt. c.i.f. terms for sifted Morocco.

FENUGREEK-SEED is firm at 18s. 6d. per cwt. on the spot, with sales of new crop Morocco for shipment at 17s. 6d. per cwt. c.i.f. terms.

GALLIC ACID is offered at from 4s. 3d. to 5s. 3d. per lb. for pure as to holder. Tannic leviss is from 4s. 8d. to 5s. 3d.

HEXAMINE varies from between 3s. 3d. and 3s. 9d. as to seller.

LAVENDER OIL.—The new French crop will not be offered for two or three weeks. Meanwhile sales of genuine old

crop have been made at from 14s. to 14s. 9d. net according to ester content. Spanish is from 2s. 6d. to 2s. 9d. for impure qualities, while for 35 per cent. 3s. 6d. and 43 per cent. 4s. 6d. is quoted.

LEMON OIL is quiet and unaltered at 3s. 8d. to 3s. 10d. on the spot and 3s. 8d. to 3s. 9d. c.i.f. A report from Sicily dated August 12 intimates that the foreign demand has continued very quiet; local transactions have also been few. Despite this, however, we notice a better tone and a slight upward tendency which might become more apparent were the slightest demand to come in from consuming countries. This better tone is ascribed to the fact that remaining stocks of last production are low in the strong hands of producers. The prospect of the new crop of lemons is not very good, and this also has its influence on the attitude of holders.

LEMONGRASS OIL.—Spot values of Cochin are from 2½d. to 2¾d. per oz.

LIGNALOE OIL.—The first offerings of the new season's crop have now been taken up, and the market is firm at from 11s. to 11s. 6d. per lb.

LINSEED is firm at 80s. to 82s. 6d. per quarter for good quality.

LYCOPodium is offered at the lower figure of 4s. per lb. for treble-sifted on the spot. A further 100 cases have arrived from Russia.

MENTHOL is steady with spot sales of Kobayashi-Suzuki at 10s. 6d. per lb. Ten cases of Yazawa sold without reserve in auction at from 9s. 9d. to 9s. 10d. (one lot 9s. 11d.) per lb.

METHYL SALICYLATE is offered at from 10s. to 10s. 6d. per lb. as to seller.

MILK-SUGAR.—Several arrivals of fair quantity have taken place from the U.S.A., but they are on consumers account. The spot price of best Dutch powder is still 165s. per cwt.

NUT OIL.—Edible ground is offered in barrels at 48s. 6d. per cwt.

OLIVE OIL.—A report from Sicily, dated August 1, states that the production has been fairly limited and barely answers the needs of the country. The exportation so far has been insignificant, especially on account of the obstacles resulting from the war, exports being strictly prohibited without a special licence for every shipment independently. The forecast of the new crop present is fairly hopeful, and a normal production is anticipated.

OPIMUM.—Permits to transact business between brokers and manufacturers appear to be granted very sparingly, and this holds up legitimate business as deliveries are not able to be made. Persian drug (10 per cent.) is quoted at from 22s. to 22s. 6d. Stocks of druggists' opium, say 11 per cent., are difficult to obtain owing to scarcity, about 35s. is the price, and 14 per cent. Salonica is worth about 40s. per lb.

ORANGE OIL.—Sicilian on the spot is quoted at 10s. 6d. to 11s., and to arrive at 11s. 6d. to 11s. 9d. c.i.f.

PATCHOULI OIL.—The bulk of the parcels offered appear to be adulterated; genuine is worth from 58s. to 62s. per lb.

PEPPERMINT OIL.—American tin oil remains firm at 9s. per lb. c.i.f. for best brands, and on the spot sellers ask 8s. 6d. H.C.H. is 12s. 9d. London terms. Japanese demethylised Mint oil is 3s. 6d. for Kobayashi-Suzuki. To arrive, the sales include 100 cases Kobayashi and/or Suzuki at 3s. 3d. per lb. c.i.f. for October-December shipment.

PHENACETIN is dearer for spot delivery, sellers asking 95s. per lb., but for August-September shipment 85s. is quoted.

PHENAZONE.—Sales have been made at 52s., with up to 54s. per lb. quoted.

POTASH CARBONATE.—We notice the arrival of 612 barrels and 43 casks from Russia.

POTASHES.—Canadian of first Government brand offer in Liverpool at 155s. per cwt. and 150s. to arrive. The spot price is 160s.

QUICKSILVER is firm at from 17l. 12s. 6d. to 17l. 15s. per bottle.

QUININE has been selling more freely from second-hands, with fair sales of sulphate at from 2s. 6d. to 2s. 7d. per oz., principally for Russian account.

SHELLAC has been quieter, prices on the week showing little change. The spot value of the usual standard TN quality is 125s. to 127s. Fine Orange is from 145s. to 147s. 6d.; AC Garnet 115s., and GAL 107s. 6d. per cwt.

TARTARIC ACID.—Very fair arrivals are still taking place mostly from Italy. Spot prices vary from 2s. 11d. to 3s., the latter quotation being for crystals. Reports are current as to much lower prices having been accepted by "outside" holders, but such are regarded as not "constituting the market."

THEOBROMINE.—The pure is offered at from 60s. to 77s. as to holder, and theobromine soda salicylate at 55s. per lb.

TURPENTINE closes at 42s. 4½d. per cwt. for American on spot, and 43s. 4½d. for September-December.

VANILLIN.—Pure crystals from clove oil are offering at from 32s. to 34s. per lb.

London Drug-auctions.

Commercial Sale Rooms,
Mining Lane, E.C., August 24.

At the monthly auctions held to-day the bidding was very poor, and little was disposed of. Of Cape aloes only the lower qualities were bid for, and rates generally showed an easy undertone. Sumatra benzoin is steady, and rather more than usual was sold. Buchu maintained previous prices. There was practically no market for cardamoms, and rather lower prices would be accepted. Dragon's-blood was slow of sale, and for good Siam gamboge previous prices were paid. Honey met with a slow demand, and prices, except for the best qualities, were from 1s. to 2s. lower. Matto-grosso ipecacuanha is rather cheaper, and lower prices would also be accepted for Cartagena. Kola is on the easier side. Menthol sold without reserve at about previous prices. Mastic is tending easier. Rhubarb is steady for flat High-dried, and Shensi has an easy undertone. Tinnevely senna-leaf dropped from 1½d. to 2d. per lb., and pods were considerably lower. Grey Jamaica sarsaparilla sold at full prices, Lima and native being steady. Beeswax was firm, especially Jamaica.

The following table shows the quantity of drugs offered and sold:

Offered	Sold	Offered	Sold
Ajowan-seed.....	67 ... 0	Honey—	
Aloes—		Cuban.....	390 ... 0
Cape.....	115 ... 25	Haytian.....	78 ... 10
Socotrine (kgs.) ..	29 ... 0	Houolulu.....	100 ... 0
Zanzibar.....	2 ... *1	Jamaica.....	862 ... 117
Anise (Span.).....	10 ... 0	St. Lucia.....	56 ... 59
Aulse, star.....	14 ... 0	St. Vincent.....	2 ... 2
Annatto-seed.....	47 ... 0	San Domingo ..	31 ... 0
Apricot-kernels ..	114 ... 0	Ipecacuanha—	
Argol.....	1 ... 0	Cartagena.....	13 ... 2
Asafetida.....	2 ... 0	Matto Grosso ..	33 ... 3
Balsam (Canada)...	1 ... 0	Minas.....	5 ... 0
Balsam tolu.....	10 ... 0	Kola.....	116 ... 26
Bay-leaves.....	140 ... 0	Lemon-grass oil ..	2 ... 0
Benzoin—		Liquorice-root.....	51 ... 0
Palembang.....	5 ... 0	Lycopodium .. cs.	10 ... 0
Siam.....	4 ... 0	cwt.	1 ... 0
Sumatra.....	266 ... 37	Madder-root.....	3 ... 0
Black-haw bark ...	16 ... 0	Manna.....	5 ... 0
Buchu.....	31 ... 1	Mastic.....	24 ... 0
Burdock.....	3 ... 0	Menthol.....	10 ... 10
Calumba.....	85 ... *10	Myrrh.....	19 ... 19
Camphor (ref.) ...	17 ... 0	Nux vomica.....	691 ... 0
Cannabis ind.....	66 ... 0	Olibanum.....	314 ... 0
Cantharides.....	27 ... 0	Orange-peel.....	41 ... 0
Cardamoms.....	188 ... 6	Papain.....	3 ... 0
Cascara sagrada...	432 ... 0	Quince-seed.....	9 ... 0
Cashew-nuts.....	176 ... 22	Rhubarb.....	89 ... 17
Cassia fistula.....	14 ... 0	Rose-water (dms.)	12 ... 0
Cassia-leaves.....	11 ... 0	Salep.....	4 ... 0
Castor oil.....	100 ... 0	Sarsaparilla—	
Cinchona.....	90 ... 4	Grey Jam.....	6 ... 6
Cinuaon oil.....	2 ... 1	Lima.....	15 ... 5
Cochineal.....	20 ... 0	Mexican.....	20 ... 0
Colocynth.....	26 ... 0	Native Jam.....	37 ... 9
Coltsfoot.....	9 ... 0	Seablae.....	89 ... 0
Conduraugo.....	93 ... 0	Seedlac.....	31 ... 31
Copaiba.....	5 ... 0	Senna and pods—	
Croton-seed.....	17 ... 0	Alex. and Mecca	59 ... 0
Cubebs.....	15 ... 0	Tinnevely.....	1189 ... 93
Cuttlefish-bone ...	65 ... 0	Squill.....	68 ... 0
Digitalis-leaves ...	200 ... *100	Stramouium.....	5 ... 0
Dill-seed.....	136 ... 0	Tamariuds (E.I.)...	240 ... 0
Dragon's-blood.....	85 ... 0	Tonka-beans.....	3 ... 0
Elemi.....	30 ... 15	Tragacanth.....	13 ... 0
Ergot.....	74 ... 4	Turmeric.....	656 ... 0
Eucalyptus oil.....	51 ... 0	Valerian.....	1 ... 1
Euonymus bark.....	48 ... 0	Vermilion.....	5 ... 0
Euphorbium.....	2 ... 0	Wax (bees')—	
Fennel-seed.....	53 ... 0	East African.....	15 ... 15
Gamboge.....	12 ... 1	East Indian.....	48 ... 0
Gum acacia.....	50 ... 0	Jamaica.....	18 ... 12
Gurjun balsam ...	265 ... 265	Madagascar.....	46 ... 45
Insect flowers.....	6 ... 0	Mozambique.....	130 ... 1
Jalap.....	144 ... 0	Wax (Japan).....	25 ... 0

* Sold privately.

ALOES.—Of Cape there was no demand for fine qualities, the selling price being 44s. Nine cases of fair seconds, slightly drossy, sold at 38s., and eleven cases of ordinary dull, part softish seconds, went at 36s. to 37s. A further two cases of common dull soft mixed with dirt sold at 30s. per cwt., subject to approval. Of Zanzibar aloes one case had been sold privately at 95s. for good cakes on leaves.

BENZONIN.—Sumatra sold at steady prices, including eight cases good fair almondy seconds at 7l. 17s. 6d., seven cases fair ditto at from 7l. 10s. to 7l. 15s., country-cut ditto at 6l. 15s. to 6l. 17s. 6d., good thirds 5l. 15s., fair thirds with false-packed centres 5l. 5s. to 5l. 10s. per cwt.

BUCHU.—A single bale of long ovals of fair greenish colour sold at 3s. 1d. A bid of 5s. 4d. is to be submitted for bold round green slightly stalky leaves, which is 2d. under the limit. Small partly bronzy round were limited at from 4s. 7d. to 4s. 8d., longs at from 3s. 2d. to 3s. 10d. as to quality, and ovals at from 2s. 9d. to 2s. 11d. as to quality.

CANNABIS INDICA.—The value of true Bombay tops is 8s. 6d. per lb., at which business has been done. A fair quantity of African is available, the nominal value of which is from 1s. 9d. to 2s. 6d. per lb.

CARDAMOMS.—Practically nothing was sold and prices tended lower, on account of continued inability to export. A case of bold pale Ceylon-Mysore sold at 5s. 6d. Two cases small pale sold at 1s. 2d. to 1s. 3d., and two packages Mangalore-seed went at 1s. 6d. per lb.

CASHEW-NUTS.—Ten cases of very wormy and husky sold at 17s. per cwt., subject.

CINNAMON OIL.—A case of Ceylon sold at 5d. per oz.

DIGITALIS-LEAVES.—A lot of 200 bales was catalogued, of which 100 had been sold privately; 180s. per cwt. was wanted for the remainder, the quality being fair.

ELEMI sold at lower prices, five cases of good pale paste realising 60s. and fair yellowish ditto 50s. per cwt., subject.

ERGOT.—Two bags of fair Portuguese sold at 1s. 9d., and a further two bags, slightly weevily, at 1s. 9d. also, without reserve.

GAMBOGE.—A lot of 10 cases offered, and was held at 25l. per cwt. for good Siam pipe, slightly blocky, and in another instance this price was paid for a single case of not quite so good fracture. The broker intimated he was selling at 25l.

GURJUN BALSAM.—A lot of 265 drums sold at from 6d. to 6½d. per lb.

HONEY met with a slow sale at a decline of 1s. to 2s. per cwt., except for the fine qualities. Fine pale set Jamaica in barrels realised 59s., good yellowish 51s. to 52s., palish set 42s. to 45s., brown set 37s. to 40s., ordinary to fair dark brown liquid 35s. to 37s. Of St. Lucia eighty-three cases sold at 36s. to 37s. (a few lots at 32s.) for dark brown liquid. Two packages of dull liquid St. Vincent sold at 32s.

IPECACUANHA.—Very quiet with an easy undertone. A single bale of fair sound Matto Grosso sold at 12s. 6d. per lb., and two bales of lean, partly mouldy, went at the low figure of 9s. 6d. Two bales of Cartagena sold at 7s., other holders asking 7s. 6d., and for Minas 7s. 6d. is also wanted.

KOLA.—A lot of 17 bags of fair Ceylon halves sold at 5½d. per lb., subject, and 9 bags W.I. at 6d. to 6½d.

MYRRH sold at steady prices, a single case of small, part blocky, Somali sorts realising 52s. 6d., and for four cases of bold clean, part glassy siftings 52s. 6d. was also paid. Four cases of siftings sold at 45s., and four cases of small siftings at 41s.

RHUBARB.—Fourteen cases offered without reserve, of which six had been sold privately. The remainder, consisting of Shensi, sold at from 1s. 8d. to 1s. 9d. for medium to bold round with three-quarters fair palish-pinky fracture. Medium flat with three-quarters very fair fracture sold at 1s. 7d., and pickings went at 1s. 4d. The value of flat High-dried with three-quarters fair fracture is 1s. 4d., and round rough horny native is 8d. to 8½d.

SARSAPARILLA.—Grey Jamaica, being scarce, brought full rates, 1s. 10d. being paid for six bales. Of Lima-Jamaica, 12 bales offered, and two sold at 1s. 7d. per lb. Native red Jamaica was steady, eight bales selling at 10d. for fair palish red and partly sea-damaged, 9d. for yellowish inferior yellow and grey.

SEEDLAC.—For 31 bags of dull Karachi 112s. 6d. per cwt. was paid.

SENNA.—Much larger supplies of Tinnevely offered, and prices were from 1½d. to 2d. lower; small and medium good green leaf, 9½d.; good bold clean slightly yellowish-green, 8d.; fair small and medium greenish, 7½d. to 8d.; middling greenish, 6½d. to 7d.; common to ordinary small and yellowish leaf, 5½d. to 6½d.; common dark, partly sea-damaged, to ordinary pods, 10½d. to 1s. 1d. per lb.

VALERIAN.—A single bale of Japanese sold at 120s. per cwt.

WAX, BEES'.—Jamaica sold at very full prices, 12 packages realising 8l. 5s. per cwt., and two packages sold cheaply at 7l. 17s. 6d. Of Madagascar, 46 packages realised 7l. 15s. per cwt. for fair block of mixed colours, and of East African 15 packages were disposed of at 7l. 15s. for fair block, part slightly drossy. A further bag of Mozambique block, part drossy, sold at 7l. 10s. Good roll was held at 8l. per cwt.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

British Trade with Russia.

SIR,—News is reaching me from London business people to the effect that they attach great hopes to the results of the Economic Conference which recently took place in Paris. In their opinion this Conference shall arrange matters so that it shall hardly be necessary for business people to do any work at all. Business shall come to us by itself. It will not be necessary to advertise, send out travellers, appoint representatives, study any languages, or take the trouble of finding out the difference between a rouble and a rupee. In short, we shall be able to come to our office at ten in the morning, leave it at twelve for two hours' lunch, one hour's sleep, and another hour for indulging in a cup of coffee at some *café*. We shall return to the office somewhere about four o'clock for reading over the huge orders that will be dropped from the aeroplanes through the chimney into the office. I wish it were really true; but I have my doubts on the subject. I do not believe that it will be right to base our future on the outcome of this or any other Conference. It is my firm belief that, in the matter of business, neither officials nor Governments will ever be able to help us. We have to find our own salvation, and this salvation shall be found in what every business man is going to do for himself and for his country. I am certain that those who worked in the Economic Conference do not know much of the sharpness of the business brain of certain business people. And no Economic Conference will ever be able to put a stop to the fine scheming of such people. You have never heard of any large toilet-soap works in Sweden; nor have I. At the present moment there are already enormous toilet-soap works in Upsala and other Swedish cities; they are turning out soap of the finest quality, and the Russian market is getting supplied with these soaps. In times of peace the Swedes had every opportunity of manufacturing such soap and sending it into Russia. The Americans did that, in spite of the long distance between the United States and Russia. Sweden did not do it because she had not the capital nor the enterprise. How is it that Sweden has entered upon this industry just at a moment when it must be so difficult to obtain the lanoline and essential oils for manufacturing such beautifully rich in quality and aroma soaps? There is one answer to the question: it is German money, skill, and enterprise. You have no means whatsoever for finding out where the Upsala men got the money from, and you have no right to question, for that would mean meddling into the other man's business—I mean the man who is not your enemy. Now, then, I ask: What can this Economic Conference do to put a stop to Upsala toilet-soap works and to increase the interests of British soap-works? I think, nothing. The English wax and ceresine importers were somewhat surprised at their being unable to sell much in Russia before the war, and now, of course, they hope that the Economic Conference will sell their wares in Russia without going to the trouble of adopting certain measures for spreading their ceresine and waxes, pure and bleached. Before the war young German representatives would come to Russia, and in the politest of manners, in pretty good Russian language, they would call upon our shoe-cream manufacturers just for a little friendly chat. Herr Wachsmüller would say to Shoemakeroff, "Would you mind polishing your boot with my pot of cream, and I shall polish my boot with your pot of cream?" The Russian shoe-cream manufacturer agreed to this, and, to his astonishment, his boot was more brilliant than the boot of Mr. Wachsmüller. The latter then offered his services for demonstrating how his cream is manufactured. The Russian investigated the finished article and convinced himself of the superiority in comparison with the shoe-cream which he was manufacturing for the last fifty years. My countryman then became inquisitive: he wanted to know the name of the products which Herr Wachsmüller fetched out from his little bag, and with which he manufactured, in the presence of the Russian, the trial-lot of shoe-cream. Here the German put down his foot, and he explained that he will disclose the secret for a fee of fifty roubles—a sum small enough for any Russian shoe-cream manufacturer. The whole secret, as Mr. Wachsmüller explained, consisted in choosing the proper ingredients. The waxes and ceresine

must be exactly of the same quality as used by the German in the trial-lot, and these qualities of waxes and ceresine can be had only from Pech, Schwarz, Drehkopf & Co., somewhere in Miltitz, near Leipzig. The Russian eagerly wrote down every detail the German gave him, and year in, year out, he paid his taxes to Germany by faithfully carrying out the instructions of Mr. Wachsmüller in importing the waxes and ceresine from that firm. Will you tell me whether the Economic Conference in Paris has proposed to British wax bleachers and sellers to adopt the same system? I believe the Economic Conference knows nothing of these business tricks, and as long as authorities and officials know nothing of these business methods they can help very little. We must find our own salvation in adopting our own business tricks, and the quicker we do it the better will it be for us. The less we base our hopes on the results of this and similar Conferences, the sooner shall we cut the ground from under the feet of the Swedes, Danes, and Americans who are gradually replacing here the Germans. I repeat, we must work our business and its future without waiting for help from any and all Conferences. On the other hand, again, I think it will be a great mistake to shut out such goods from neutral countries which are really cheaper and better than we can make ourselves. In other words, we must not create or foster any artificial business or industry. I am afraid this is exactly what the Conference has not in mind.

Yours faithfully,

D. A. RUFFMAN.

Petrograd.
P.S.—Since writing the above the National City Bank of New York has applied to the Russian Government for a charter to open a branch in Russia. Has any real English bank done the same? Certainly not. English banks hope that the Conference will do the business for them.

Analytical Tests.

SIR,—I note that in the *C. & D.* (August 19, p. 66) you describe two analytical reactions of interest, viz.: Bellier's test for arachis oil and Wense's and Caspari's test for potash. As one who has employed these processes, and has had much experience in the application of other means to the same respective ends, I think it would be of value for your readers to be acquainted with the reliability and importance of the reactions in question when compared with other and better-known methods, in particular the Renard process and its modifications for arachis oil and the platinum method for potash. Bellier's has not replaced the Renard modification, which latter is still to be regarded as the standard; the former may have its uses in works where a great number of tests have to be performed, but is not considered by analysts to be trustworthy for important work. The perchloric method for potassium is of particular interest at the present time, in view of the high price of platinum. The test, however, certainly is not so well established as the platinum method, nor is it yet regarded as a standard process. For important work the platinum method is mostly used, although, of course, the alternative means is quicker and cheaper.

Yours faithfully,

ANALYST. (51/8.)

The Cocaine Regulation.

SIR,—Although the Order in Council of July 28, 1916, does not specially mention the supply by hospitals to patients, it appears clear that such are not exempt, and that the Regulation should be fully carried out by them, in which case any hospital employing an unqualified chemist as dispenser cannot legally supply cocaine above the specified strength unless the prescription is dispensed by one of the medical staff. Neither does it mention doctors dispensing from their own surgeries, but there is nothing to exempt them from the obligation of keeping a register. With regard to hospitals, I understand that Mr. W. Johnston, Secretary of the Chemists' Defence Association is in communication with the Home Office on the matter.

Yours truly,

JAMES R. CAVE.

Southport.

The August Drug Tariff.

SIR,—Most chemists will have received a copy of the August Tariff for Drugs. It will be noticed that the prices of bromides have been lowered to the prices prevailing now. If the scripts are priced according to the new prices, which only came into vogue a week or two ago, chemists will be very hardly hit, entailing considerable loss, especially in those districts where bromides are largely prescribed, as chemists are now dispensing from their stock of bromides for which they paid the original high prices. They should at least be allowed a reasonable time to dispose of their present stock. I hope that all Secretaries and Committees will at once lodge a protest against this decidedly unfair treatment.

Yours truly,

J. C. LLOYD, Hon. Sec. East Sussex Pharmaceutical Committee.

Lewes.

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1916, beginning on page 341.

T. C. M. (51/48).—NON-AERATED DISTILLED WATER is chargeable to table-water duty if it is sold or kept for sale as a beverage. (See *C. & D.*, July 15, p. 43.)

W. S. T. (45/63).—COCAINE FOR DENTAL USE.—As a pharmaceutical chemist you are an "authorised person," and can purchase cocaine. This you can use in your dental practice if you wish. See Mr. Samuel's speech in the House of Commons (*C. & D.*, August 5, p. 44).

T. W. W. (46/29).—The Cocaine Regulation applies not only to the sale of cocaine, but to giving, procuring, or supplying as well. It does not, therefore, matter whether your customer paid for the cocaine solution some time ago or not. The unregistered persons practising dentistry who may be supplied with cocaine solution until October 15 are those who practised before the date upon which the Regulation was made—i.e., July 28.

G. W. A. (38/49).—DENTAL ANÆSTHESIA.—Novocaine is not chemically the same as cocaine, but is an efficient local anæsthetic, although its effects are stated to be more transitory. We believe that the exhilarating after-effect, which is the property which has led to the abuse of cocaine, is absent in the case of the artificial alkaloids.

W. R. (50/44).—REPEATING COCAINE PRESCRIPTIONS.—The Cocaine Regulation is quite explicit on the question of repeating prescriptions containing it in a larger proportion than one in a thousand. (See *C. & D.*, August 5, p. 34.) The prescription of which you send a copy contains 2 per cent. of cocaine, and cannot therefore be repeated "except in pursuance of fresh directions duly endorsed on the prescription by the medical man by whom it was originally issued," etc.

N. C. (48/22).—Wholesalers must keep a record of all sales of cocaine, and they may only sell to "authorised" persons. Until October 15, unregistered dentists may be supplied with a 1-per-cent. or weaker solution of cocaine. After that date the possession of cocaine by unauthorised persons is a punishable offence, so that it is no use an unregistered dental practitioner, who is not a chemist, laying in a stock of the solution. The books of the wholesaler are open to inspection by the police, and the destination of the cocaine is traceable if need be.

A. W. W. (41/44) has had a showcase damaged by a cow which, while it was being driven along the road, entered his shop. The owner of the cow repudiates responsibility upon the ground that the shop-door was open. How do we advise "A. W. W." to proceed? [The owner of the cow is not liable in respect of the damage unless it can be proved that the animal was being driven along the road in a negligent manner. Unless "A. W. W." can establish a clear case of negligence we do not advise him to take legal proceedings; particularly having regard to the fact that the shop-door was left open.]

W. E. (46/50) asks whether he is entitled to sell half a pint of petrol or benzoline to persons who do not produce a petrol licence. [Under the recent Finance Act it is an offence to supply motor-spirit to a person who is not the holder of a licence. Both petrol and benzoline come within the definition of "motor-spirit," hence it would be illegal for "W. E." to supply even half a pint of either liquid to an unlicensed person. The definition of motor-spirit in the Finance (1909-10) Act, 1910, is: "Motor-spirit" means any inflammable hydrocarbon (including any mixture of hydrocarbons and any liquid containing hydrocarbon) which is capable of being used for providing reasonably efficient motive-power for a motor-car.]

Perplexed (52/68) writes concerning the Cocaine Regulation: "This is tolerably clear regarding purely retail transactions, but insufficiently explicit concerning the relations between doctor and pharmacist and pharmacist and hospital, in such typical cases as the following: (1) A doctor telephones for, say, an ounce of 10-per-cent. cocaine solution to be sent to his own address. (2) A doctor telephones for an ointment or a suppository or a lotion or a lozenge containing more than 1 of cocaine in 1,000 to be sent direct to a patient. (3) A hospital dispenser rings up for, say, an ounce of cocaine hydrate to be sent to his hospital. Will a simple entry of these transactions in the new cocaine register suffice, or must a written order be demanded in addition and such orders filed?" [Without entering into the question of whether these are

wholesale or retail transactions, which under the Pharmacy Acts are treated differently, it would appear that these are sales of cocaine within the meaning of the Cocaine Regulation, and that entry of the sales must be made in the book kept for that purpose. The first two transactions are sales to a doctor who is one of the authorised persons specifically named in the Cocaine Regulation. In the case of the sale to the hospital dispenser, assuming that he is not an authorised person—a qualified chemist, for example—and that the sale is to him and not to the hospital, it will be necessary to produce the cocaine permit to purchase, which the hospital should hold, and on this must be endorsed the particulars of the purchase. This obviously cannot be done by telephone. In regard to telephone wholesale orders for cocaine, there is considerable risk in such transactions, and bearing in mind the exceptionally heavy penalties which are incurred by infringing the Cocaine Regulation, we suggest that wholesalers, for their own protection, should not accept such orders by telephone.—*Ed. C. & D.*]

Miscellaneous Inquiries.

Barkite (35/24) and *Urace* (43/72).—SELF-LUMINOUS PAINT. See *C. & D.*, June 17, p. 45.

Booco (44/9).—BLEACHING-LIQUID.—See *C. & D.*, May 2, 1914, p. 64.

G. O. B. (46/2).—FINGER-NAILS GROWING DARK AND THIN AND BRITTLE.—This is generally due to some constitutional defect; the general health should be looked into by a physician.

A. J. C.—HONEY AND FLOWERS.—We gave a formula for this in the *C. & D.*, September 25, 1915, p. 82. Back numbers can generally be obtained (6d. each) from the Publisher.

E. G. (43/70).—MILITARY TRIBUNALS.—It is generally agreed that the procedure at Military Tribunals is far from uniform, but in the circumstances it is hardly possible to devise a better method.

C. W. K. B. (43/43).—CHARGE FOR POWDERS.—The Liverpool Price-list gives 9d. to 1s. for six powders, 1s. to 1s. 6d. for twelve, and 1s. 6d. to 2s. 6d. for eighteen to twenty-four powders.

J. F. W. (49/71).—FIREWEED.—There are several herbs which are known popularly as fireweed—e.g., *Erechtites hieracifolia*, *Leptilon canadense*, *Plantago media*, *Chamaenerion angustifolium*, *Datura Stramonium*, *Senecio aureus*. *Oleum erigerontis canadensis*, U.S.P., is obtained from *L. canadense*, and may be what your customer requires.

P. M. (44/66).—BOOT-POLISH.—See *C. & D.*, October 16, 1915, p. 60.

A. M. (46/46).—PREPARING INFUSORIAL EARTH.—The organic matter should be entirely removed if the calcining-process has been well carried out. This is usually performed on the large scale and by a continuous process in round furnaces about 15 ft. high by 6 ft. in diameter. The material is lighted at the bottom, and the organic matter in the infusorial earth is sufficient to cause the fire to spread until the whole mass is red-hot. Fresh kieselguhr is supplied at the top, and the calcined earth removed from the bottom of the furnace. Iron, if present, is best removed by macerating with hydrochloric acid and subsequent washing with water, but this increases the cost of the kieselguhr, so that it cannot compete in price with samples of iron-free earth which occur naturally.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," August 15, 1866.

Important to Chemists.

Robert Gibson begs to inform all who prefer having chlorodyne lozenges with their own name upon that he will stamp any chemist's name upon each lozenge (free of charge) who will purchase 14 lb., either direct from himself or through a wholesale house. Buyers of a less quantity can have their name upon them by paying for the stamp. Handbills for [Gibson's vermin-killer] with agent's name upon will be sent free of charge to any part of England on application to [R. Gibson, manufacturer, [Gibson's chlorodyne lozenges, [Gibson's vermin-killer, in 1d., 2d., 3d., and 6d. packets, [Gibson's beetle-powder, in 3d. packets, [Gibson's worm-cakes, in dozens, [Hulme, Manchester.

"VASELINE" AND RELIABILITY

"VASELINE" when used in Ointments contains more of the desired elements necessary for a universal base than any other known substance. It has emollient, antiseptic, healing and protective qualities in itself, is not easily acted on by chemicals, and, where properly protected from air and light, does not change. Also, when incorporated with other medicaments, they are not injured by the action of the base. These conditions have long been recognised by the leading Physicians, Surgeons and Pharmacists throughout the world. Animal and vegetable fats, on the other hand, are subject to change, forming various compounds, which destroy the end for which they were intended.

"Vaseline" is the Registered Trade Mark of the

Chesebrough Mfg. Co. (Cons'd.)

42 Holborn Viaduct, London, E.C.

Complete Price List of all the "Vaseline" Preparations will be sent post free on application.

HUBBUCK'S PURE OXIDE OF ZINC.

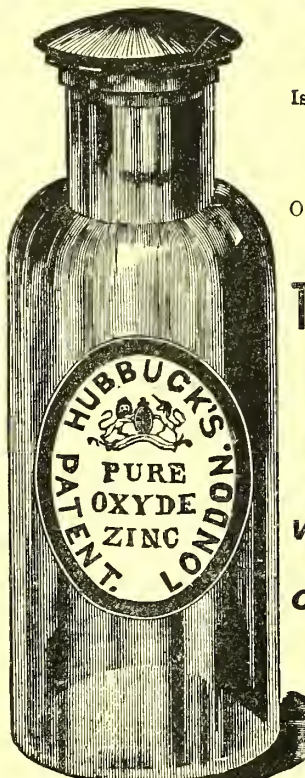
Sold by the following Wholesale Druggists
in Boxes of 7 lbs. and 14 lbs. stamped by
the Manufacturers; also in 1-lb. Boxes and
1-lb. Glass Bottles:—

Allen & Hanburys (Lim.)
Baiss Bros. & Stevenson
(Lim.)
Bell, Jno., & Co.
Bleasdale (Lim.) [(Lim.)
Boots' Pure Drug Co.
British Drug Houses (Lim.)
Burgoyne, Burdidges &
Co.
Butler & Crispe
Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
Dakin Brothers. [(Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher &
Webb (Lim.)
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothe-
caries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
(Lim.)
Harkness, Beaumont &
Co.
Hatrirk, W. & R., & Co.

Hirst, Brooke & Hirst.
Hodgkinson, Prestons &
King.
Hodgkinsons, Clarke &
Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of Edin-
boro').
Ismay, John, & Sons
Lofthouse & Saltmer
(Lim.)
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raines, Clark & Co.
Raines & Co.
Rankin & Borland.
Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R., & Co.
Taylor, James.
Thompson, John (Lim.)
Willows, Francis, Butler
& Thompson (Lim.)
Woolley, Jas., Sons & Co.
(Lim.)
Wright, Layman & Um-
ney (Lim.)
Wyleys (Lim.)

Barry, E. J., New York.
Carter, Carter & Kilham,
Boston.
Finlay & Branswig, New
Orleans.
Langley & Michaels, San
Francisco.
Lehn & Fink, New
York.

McKesson & Robbins, New
York.
Muth Brothers & Co.,
Baltimore.
Roller & Shoemaker,
Philadelphia.
Schieffelin, W. H., & Co.,
New York.
Shoemaker, R., & Co.,
Philadelphia.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted
to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are
not traceable.

THOS. HUBBUCK & SON,
(Established 1765) **LTD.**

**24 LIME STREET,
LONDON, E.C.**

Manufacturers of—

**White Lead, White Zinc,
Paints, Oils,
Colours, Varnishes, &c.**

AUSTRALIAN OFFICE—

34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure
Oxide Wholesale only, in quantities of
not less than 2 cwt.

—THE SEASON FOR— Anti-Parasitic Powder Antiseptic Foot Powder Anti-Thirst Tablets

—IS NOW ON—

Write for Prices. We can offer advantageous prices for these lines.

SHOWCARDS SUPPLIED.

DUNCAN, FLOCKHART & CO.
EDINBURGH & LONDON, 155 Farringdon Road, E.C.

Sell a cake of Resinol Soap with every jar of Resinol.

If you try it, you will find it *just as easy* to make a sale of 3s. 7½d. for the two as to get 2s. 6d. for the Ointment alone. In the treatment of Eczema, Pimples, and other skin troubles, the affected parts should be bathed with Resinol Soap and hot water before Resinol Ointment is applied. Resinol Soap is absolutely pure and non-irritating, and contains the same soothing, healing properties as Resinol Ointment. Tell your customers this and they will buy the soap too. Resinol Soap is also an ideal toilet soap, as the Resinol Balsams keep the skin clear and the hair healthy.

SEND FOR A MINIATURE RESINOL SHAVING STICK.

It's free. We want you to learn how this rich, creamy lather soothes and heals the face. When you have tried it you will WANT to recommend it to every man who comes into your shop.

Resinol Chemical Company,

97 New Oxford Street, London, W.C.,
and Baltimore, Maryland, U.S.A.

Australasian Agents: CHARLES MARKELL & CO., Sydney, N.S.W.

COURTIN & WARNER

Chemicals, Drugs
& Essential Oils,

**8 HARP LANE,
LONDON, E.C.**

ALL INQUIRIES BY POST or
PHONE RECEIVE OUR OWN
PERSONAL ATTENTION.

Telephone : Avenue 2220.
Telegrams {" Accourtiwa,
Bilgate, London."

Stock

ACETANILID P.B.	ESSENTIAL
ACID TANNIC	OILS of
CARMINE	ANISEED
CAMPHOR	BERGAMOT
CITRIC ACID	CINNAMON LEAF
HEXAMINE	CLOVES, English
LITHIA CARB.	EUCALYPTUS P.B.
SANTONINE	LEMON
SALICYLATES	LEMONGRASS
QUININE	MUSTARD SEED
	PEPPERMINT
COUMARIN	ENGLISH
MENTHOL	AMERICAN
OTTO of ROSES	JAPANESE
SUGAR of MILK	SASSAFRAS
VANILLIN	WINTERGREEN
etc. etc.	etc. etc.

EMETINE

HYDROCHLORIDE HYDROBROMIDE

WHIFFEN & SONS, Ltd., BATTERSEA, S.W.



PATTINSON'S MAGNESIA

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mincing Lane, London, E.C.



JOHAN BUGGE & CO., BERGEN.

Finest Pure Medicinal . **COD LIVER OIL.**
Lofoten Non-Congeealing

Sole Agents for United Kingdom—SPARKS, WHITE & CO., LTD.

London—Albion Mills, Tenter St. East. Manchester—2 Royle St., Stockport Road. Glasgow—13 Sutherland St., Hillhead.

SCIENTIFIC ORGANOTHERAPY PRODUCTS

"OPOCAPS" (Regd.) and SPECIAL REGISTERED PRODUCTS.

Lymphoid Compound, Lymph Serum, Ovamammoid Compound, Adrenin (B.O.C.), Haematothyroidine, Retropituitrol, Eukinase, Pancreatokinase, and Extracts Thyroid, Thymus Suprarenal, Splenic, Red Bone Marrow, Prostatic, Placenta, Pituitary, Parathyroid, Lymphatic, Corpora Lutea, Biliary, Renal, Hepatic, Gastric Mucosa, and all other Organotherapeutical Preparations employed in Modern Medicine.

THE BRITISH ORGANOTHERAPY CO., Ltd., Carlton House, Lower Regent St., London, S.W.
Telephone—Gerrard 7111. Telegrams—"Lymphoid London."

MALLINCKRODT CHEMICAL WORKS OF CANADA LTD.

THE products of our manufacture are of the Purest and Highest Standard. We are in a position to offer the Mother Country and Sister Colonies a full line of PHARMACEUTICAL AND PHOTOGRAPHIC CHEMICALS.

Acid Pyrogallic
(Crystals and resublimed)

Hydroquinone

Trional (Methyl-Sulphonil)

Morphine Salts

Hexamethylenetetramine

Acid Gallic

Rhodol (Metol)

Acid Tannic

Sulphonal

MADE IN CANADA

ACID ACETYL-SALICYLIC B.P.

(Pure Aspirin)

Manufactured at our Montreal Works. BRITISH MAKE.

Lowest Prices for Wholesale Quantities.

Cable Address: "Mallchem Montreal."

Telephone:
Central
1428.Telegrams:
Acids
Newcastle-
upon-Tyne.

Messrs.

JOHN NICHOLSON
& SONS, LTD.,St. Ann's
Chemical Works, Newcastle-upon-Tyne

Inquiries solicited. Prompt and forward delivery.

ACETATE OF LEAD, Triple Refined,
White Crystals.AMMONIA, 880's (and other
strengths)

BARIUM CARBONATE

BARIUM CHLORIDE

BARIUM SULPHATE

EPSOM SALTS. Druggists' quality

FORMALDEHYDE

HEXAMETHYLENETETRAMINE

HYPOSULPHITE OF SODA. Large and
Pea Crystals (Casks or Kegs)

PARAFORMALDEHYDE POWDER

SODIUM SULPHIDE. Concentrated.

FUERST BROTHERS

17 PHILPOT LANE,
LONDON, E.C.

FORMALDEHYDE . . .

SALICYLATES

ACETIC ACID

BROMIDES

LANOLINES

LIQUORICE JUICE . .

OLIVE OIL

Crampton's Specialities

DRUGGISTS' EPSOM SALTS.

Packed in 1 & 2 cwt. Barrels & 2 cwt. Bags

FOR HOME
& EXPORT.

SPECIAL QUOTATIONS
given on receipt of p.c.
specifying quantity.

JOHN Crampton & Co Ltd

Telephone
4984 Central
Manchester

357-9 Deansgate,
MANCHESTER.
Branch - 460 Gallowgate, GLASGOW.

Telegrams
NUTMESS
Manchester

GOLD MEDALS:
Paris, 1889 and 1900.
GRAND PRIX:
Turin, 1911.

FERDINAND ROQUES, PARIS.

"ROQUES" COCAIN
"ROQUES" PILOCARPIN
"ROQUES" SPARTEIN

SOLE AGENTS FOR U.K.: W. CHARITY & SONS, 14 Harp Lane, LONDON, E.C.

No. 2 Telephone: Avenue
4359.

(WHOLESALE ONLY.)

Manufacturer of Pure
Pharmaceutical Chemicals.
ESTABLISHED 1846.

OTHER SPECIALITIES:
Refined Camphor, Iodides, Formol, Iodothymol,
Bromides, Bromoform, Bismuth Salts,
CACODYLATES, METHYLARSENATES.

Telegrams: "Charity London."
Codes: A B C and LIEBER.

CELLONITE COMPANY, DREYFUS & COMPANY, BASLE.
Works at Basle (Switzerland) & Belfort (France).

CELLULOSE ACETATES "DREYFUS"
ACETIC ANHYDRIDE. TRIACETINE, CAMPHOR
SUBSTITUTES.

Joint Agents for United Kingdom of Great Britain and Colonies:

HUGO LORENZ,

AND

HARRY HEYMANN,

77/8 Idol Lane, London, E.C.

5 Union Street, Bradford.

NEW BARKS

Spring is our Season for gathering—

LET US ENTER YOUR ORDER **NOW**
FOR THE

SLIPPERY ELM BARK (WHOLE OR POWDERED).

WILD CHERRY BARK.

SASSAFRAS BARK. WAHOO

BARK. FRINGE TREE BARK.

NEW CROP

HEADQUARTERS FOR **MANDRAKE ROOT,**
CASCARA, CASCARILLA, LOBELIA, Etc.

S. B. PENICK & COMPANY,

**CRUDE BOTANICAL
DRUGS.**

CABLE ADDRESS:
"PENICK, DRUGGISTS, NEW YORK."

NEW YORK. MARION, N.C., U.S.A.

Cable Address:

"CELAITCH, NEW YORK."

CHAS. L. HUISKING,

5 PLATT STREET, NEW YORK CITY,

Broker and Commission Merchant.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agent for leading Houses in all parts of the World.

Weekly Market Reports Mailed on request of Wholesale Buyers only.

1865-1916.
Samuel G. McCotter & Co.

Cable Address: "McCotter New York."

13 GOLD ST., NEW YORK CITY

BROKERS IN

**DRUGS, CHEMICALS, DYESTUFFS,
AND ESSENTIAL OILS.**

AGENCIES SOLICITED.

CURRENT MARKET PRICES MAILED WEEKLY TO WHOLESALE TRADE ON REQUEST.

SUBITOL

The product of an allied country PERFECTLY REPLACES

ICHTHYOL

In 4 oz., 8 oz., and 1 lb. Tins, also in bulk quantities.

To be had from Wholesalers, or direct from

CHAS. ZIMMERMANN & CO. (Chemicals), Ltd. (British Firm), 9 & 10 St. Mary-at-Hill, LONDON

J. W. DRYSDALE & SONS

16 FISH STREET HILL, LONDON, E.C.

IMPORTERS AND EXPORTERS.

DRUGS, FINE CHEMICALS, SYNTHETICS, &c.

OPIUM, MORPHIA, CODEIA, SALICYLATES, ALKALOIDS,
BALSAMS, ERGOT OF RYE, JALAP, &c.

CONSIGNMENTS AND INDENTS SOLICITED.

THE FABRA COMPANY, LTD.

24 Minories,
LONDON.

Lloyds Bank Bldgs.,
MANCHESTER.

54 Gordon Street,
GLASGOW.

ACETIC ACID, 70% & 80%
BISMUTH SALTS
BROMIDES
HYDROKINONE
PHENAZONE
SALICYLATES

Vicar Lane,
BRADFORD.

Powvalla Buildings,
237 Hornby Road,
BOMBAY.

29 Broadway,
NEW YORK.

Telegrams:
"Ether Methylated London."

ALFRED WHITE & SONS,

Established 1775.

Manufacturing & Export Chemists.

Telephone:
1315 Holborn.

AETHERS

Made from Duty Paid and Methylated Spirits.

Offices and Warehouse:
28-31 ALLEN STREET,
GOSWELL ROAD,
— LONDON, E.C. —

PRICE LISTS FREE ON APPLICATION.

Works and Wharf:
— YIEWSLEY —
CHEMICAL WORKS,
WEST DRAYTON, MIDDXX.

GALENICALS

FROM CHEMICALLY AND PHYSIOLOGICALLY TESTED DRUGS

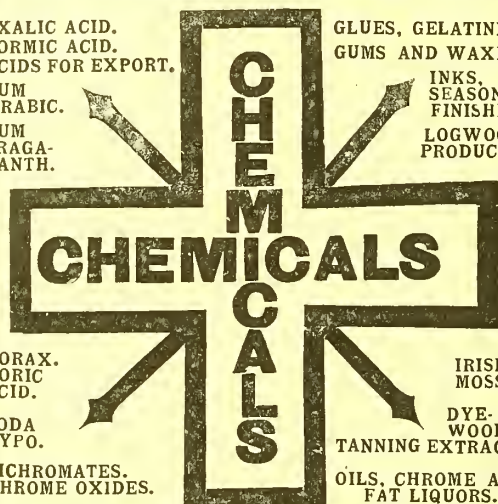
Willows, Francis, Butler & Thompson, Ltd.,
40 Aldersgate Street, LONDON, E.C.

*Special Offer this issue***CHLORIDE BARIUM**

OXALIC ACID.
FORMIC ACID.
ACIDS FOR EXPORT.
GUM ARABIC.
GUM TRAGACANTH.

GLUES, GELATINES.
GUMS AND WAXES.

INKS.
SEASONS.
FINISHES.
LOGWOOD PRODUCTS.



BORAX.
BORIC ACID.
SODA HYPO.

BICHROMATES.
CHROME OXIDES.

IRISH MOSS.

DYE-WOOD &
TANNING EXTRACTS
OILS, CHROME AND
FAT LIQUORS.

GOUGH, KIDSTON & CO.

12 BERMONDSEY SQ., LONDON, S.E.

City Office: 43-45 Great Tower Street, E.C.

Tel. Add.: "Kidstonism, Bilgate, London." 'Phone: 2029 Hop.

GENTIAN

Whole Roots
Fresh & Dry.

GENTIAN POWDER

GIGNOUX FRÈRES & CO.,
Dealers, Growers,
DÉCINES, près Lyon,
France.

EPSOM SALTS, Druggist and Commercial Qualities.
ZINC SULPHATE, Druggist and Commercial Qualities.

Prompt and forward deliveries. Inquiries solicited.

WILLIAM BLYTHE & Co., LTD.,
CHEMICAL MANUFACTURERS. CHURCH, LANCASHIRE.

British Pharmaceuticals

ACETANILID
HYDRARG. c. CRETA
SODA SULPHOCARBOLATE
ZINC SULPHOCARBOLATE

E. H. BUTLER & SON, Manufacturing Chemists
93 Humberstone Gate, LEICESTER.

Swiss Aniline Colours.

J. R. GEIGY, S.A.,
Basle - Switzerland
are makers of

ACID REDS, YELLOWS and ORANGES
METHYLENE BLUES
NIGROSINES. TANNIC ACID

Agents for Leicester District:
E. H. BUTLER & SON, LEICESTER.

B. BROWN & BRO.*Importers and Exporters***DRUGS, CHEMICALS & VEGETABLE OILS****280 BROADWAY, NEW YORK, U.S.A.****EUCALYPTUS OIL****70 % to 80 %
Eucalyptol.**

QUOTATIONS BY CABLE.

BURNSIDE & CO.
EAGLESHAWK, VICTORIA, AUSTRALIA.**PICKARD, IVE & RANKIN, Ltd.**

Walmer Chemical Works, NOTTING HILL, LONDON, W.

British Acetyl-Salicylic Acid

of guaranteed B.P. quality, in snow-white crystal flakes.

Telegrams: "Pickiveran Norkens."

Telephone: Park 4500.

FINE CHEMICALS

We shall be pleased to quote for the Fine Chemicals that are now available. Packages can be made up to suit your own convenience, and goods placed, if necessary, free on board.

Among others, we can quote for—

ASPIRIN B.P.	AMIDOPYRIN.
ANTIPYRIN.	METHYL ORANGE.
ACID SALICYLIC.	SALOL.
SODA SALICYLATE.	NAPHTHALENE BALLS.
BISMUTHS.	SILVER PROTEINATE.
ASPIRIN TABLETS (in bottles).	

We are anxious to meet new friends and cordially invite them, as well as our old ones, to send us their inquiries. Keen, competitive prices will be quoted every time.

HARTLEY FLOREY,

54 Lower Thames Street, London, E.C.

Phone: Avenue 3889.

Telegrams: "Yerolfrath, Phone, London."

1844 **THOMAS TYRER & Co.** 1916

Sterling Brand

STRATFORD, LONDON, E.

GRAND PRIZE, LONDON, 1909.
GOLD MEDAL, ST. LOUIS, 1904.**Acids, Hydrochloric, Nitric,
Phosphoric, Sulphuric,**
*PURE & TECHNICAL.***CHEMICALS**
FOR
HORTICULTURAL
AND
AGRICULTURAL
PURPOSES, &c.**Bismuths, Mercurials,
Hypophosphites, Ethers***and all Technical & Special Chemicals.*

OUR SOL. 'MAGNESIA BICARB.' CONTAINS NO ARSENIC.

OUR REPUTATION YOUR GUARANTEE**THE BARKOLA CO., LTD.**

(Successors to the Old Fort Chemical Co., Ltd.)

Beg to announce that from September 1st next the Retail Price of their standard size Liq. Barkola Compound will be 2/9; Wholesale, 26/- per dozen.

THE BARKOLA COMPANY, LTD.,
42 GREAT DOVER STREET, LONDON, S.E.

'Phone: Battersea 1612.

V. A. PICERNO,

92 FALCON ROAD, BATTERSEA, S.W.

INQUIRIES SOLICITED FOR

Drugs and Chemicals

(TECHNICAL & PHARMACEUTICAL).

Acid Citric
 " Gallic
 " Lactic 50 % Edible
 " Tannic Leviss
 Barium Binoxide
 Cream of Tartar 99 1/2 %
 Creosote B.P.
 Hexamine

Lithium Carbonate
 Lycopodium
 Magnesium Metal
 Magnesium Sulphate
 Mannit
 Naphthaline Balls
 Phenazone
 Phenacetin

Quinine Salts
 Salicylates
 Salol Santonine
 Soda Benzoate
 " Hyposulphite
 Tartar Emetic 43/44 %
 Terpene Hydrate
 Urea, pure cryst.

And all products used in the Pharmaceutical
 Industry for Prompt or early Delivery.

HENRI PELLIOU & CIE,

27 rue des Francs Bourgeois, Paris.

CREAM OF TARTAR 98/99%**CITRIC ACID****TARTARIC ACID****ALL ALKALOIDS & CHEMICALS.**

Telegrams: "CHARPELLIO, PARIS."

**Theobromine
Pure Alkaloid.****Theobromine
Sodio-Salicylate**

(chemically the same as Diuretine).

Tuberculine (prescription Denys,
Koch and Roell).

Societeit voor Chemische Industrie Katwijk,
 KATWIJK-AAN-ZEE, HOLLAND.

Ampoule Files

THE GREATEST PRODUCTION

IN THE WORLD.

THE BEST. THE CHEAPEST.

Prices and Samples sent on application to—
SIM LTD., Morges, Switzerland.

Major CYRIL SANKEY, late Royal Artillery, General Manager.

THE NEW FRENCH REMEDY.**THERAPION No. 1**

Cures Urethral Discharges, Gonorrhea and Gleet.

THERAPION No. 2

Cures Blood Poison, Bad Legs, Skin Eruptions.

THERAPION No. 3

Cures Chronic Weaknesses, Drains, Lost Vigour, &c.

Stocked by leading Wholesalers. Price in England, 2/9.

SOLE PROPRIETORS: DR. LE CLERC MED. CO.

Literature and
 small attractive
 Showcard FREE
 on request from
 London Depot,

DE ROOS, JOHNSON & Co.
 KENTISH TOWN, N.W.

Telephone:
 Hampstead 112. 11
 Paris Depot:
 Rue Castiglione,
 New York Depot:
 90 Beekman Street.

TRADE MARK "THERAPION" Registered throughout the World.

Sales of "Therapion" bring customers for Lint,
 Suspensories, Caustic Points, Ointments, Lotions, &c.
 The New Dragee (Tasteless) form of Therapion will please your customers.
 Easy to take, safe and lasting cure.

DR. LE CLERC'S PILLS FOR THE LIVER AND KIDNEYS 2/9.**DR. LE CLERC'S VEGETABLE APERIENT PILLS 2/9.****DR. LE CLERC'S SOAP TABLETS, 1/-.****WE CAN OFFER FIRST HAND****SODA SULPHATE (PEA XTALS.)****ACETIC & OXALIC ACID.****ACID TARTARIC. QUININE.****SODA HYPOSULPHITE.****FORMALDEHYDE.****A.D.CHESTER & CO., LTD.**

Chemical Works, Drummond Road, Bermondsey, London.

Telephones Nos. 6 and 4782 HOP.



PRICE
 4 2/-
 PER GROSS

PACKED IN
 COLLAPSIBLE
 TUBES WITH
 RIBBON
 ORIFICE

SPECIMEN SHOWCARD GIVEN FREE

**A PERSONAL
RECOMMENDATION**

THYMOL-TOOTH PASTE

THIS ARTICLE IS
 SPECIALLY PREPARED TO
 OUR OWN ORDER

IT IS A SUPERIOR PRODUCT

AND WE HAVE NO HESITATION

IN ADVISING OUR CUSTOMERS

THAT IT IS BEING CONFIDENT

OF THEIR APPRECIATION

PER TUBE

7 1/2

HALL FORSTER & CO., LTD.

Manufacturing Chemists

NEWCASTLE - ON - TYNE.

JOHN LORIMER

119 Finsbury Pavement, London, E.C.

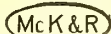
**Acid Acetylsalicylic
 Silver Proteinate
 Silver Nucleinate
 Vitagen**

ALL BRITISH manufacture.

McKESSON & ROBBINS

ESTABLISHED 1833

91 Fulton Street



New York, U. S. A.

*Offer***AMERICAN DRUGS AND CHEMICALS**
and Invite Correspondence.*Foreign Distributors for***New York Quinine and Chemical Works, Ltd.**

MAKERS OF

QUININE, MORPHINE, CODEINE, ACETANILIDE, etc.*Our representation is as follows :*

LONDON—C. F. Gerhardt, 5 Fenchurch St.

LIVERPOOL—Matthew Bell & Co., 6 Rumford Pl.

MILAN—Albino Villani, Via Revere 10.

MELBOURNE—Geo. Wills & Co., Ltd.,
G. P. O. Box 357.

MARSEILLES—O. Gross & Co., 8 Rue Jaubert.

AMSTERDAM—Gust. Briegleb.

SEVILLE—H. de la Mata Monge, Monardes 2.

BUENOS AIRES—William Burmester.

AUCKLAND.—Kemp'horne Prosser & Co.'s
New Zealand Drug Company, Ltd.

PARIS—L. Barberon, 15 Place des Vosges.

SOUTH AFRICA, from Cape Town to the Zambesi**LENNON LIMITED****Established in**
SOUTH AFRICA
at**CAPE COLONY**Cape Town
Port Elizabeth
East London
Kimberley
Graaff Reinet
Allwal North
Mafeking
Oudtshoorn
Wynberg
Mossel Bay
Paarl
Stellenbosch**TRANSVAAL**Johannesburg
Fordsburg
Germistoun**NATAL**

Durban

**ORANGE RIVER
COLONY**

Bloemfontein

RHODESIABulawayo
Salisbury
Gatooma**Wholesale Druggists,**
Manufacturing Chemists,
Druggists' Sundriesmen.

DEALERS IN

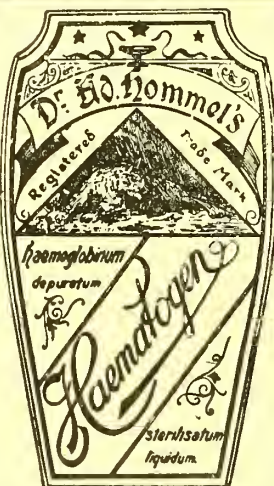
**Surgical Instruments, Dental, Optical, and Photographic
Goods, Perfumery, and Assay and Mining Requisites.****Contractors to the Governments of
CAPE COLONY, NATAL, RHODESIA, TRANSVAAL,
and ORANGE RIVER COLONY.**

London Office, Warehouse, and Factory—

12-14 LAFONE STREET, TOWER BRIDGE, S.E.**Unrivalled position for the introduction and handling of Specialities**



**Dr. HOMMEL'S
Haematogen.**



Please Note that
**DR. HOMMEL'S
HÆMATOGEN**

is, and always has been, manufactured in
SWITZERLAND

by Swiss Proprietors,
and that a continuous supply is assured.

NEITHER THE WHOLESALE OR RETAIL
PRICE HAS BEEN INCREASED.

All Orders will be carefully attended to as hitherto.

Sole Agents for Great Britain, India, and Colonies:

GERTH VAN WYK & CO.,

36 & 36a St. Andrew's Hill, LONDON, E.C.

T.&H. SMITH LTD
MANUFACTURERS
OF

MORPHINE, CODEINE

AND ALL OPIUM PRODUCTS.

EMETINE

CHLOROFORM
STRYCHNINE
CANTHARIDIN
PODOPHYLLIN

CAFFEINE
SALICIN
THEOBROMINE
JALAP RESIN

ALOID
CAPSICIN
GINGERIN
SCAMMONY RESIN

**Blandfield Works,
EDINBURGH.**

**22 City Road,
LONDON.**

**37 Washington Street,
GLASGOW.**

ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.

*Sole Manufacturers of***JUBOL**Re-education of the Intestine.
Constipation, Enteritis, Hæmorrhoids,
Indigestion, Skin Blemishes, &c.

Price 5/- per box.

GLOBÉOLPowerful Blood Tonic.
Anæmia, Nervous Exhaustion, General
Debility, Tuberculosis Convalescence,
etc.

Price 5/- per bottle.

PAGÉOLPowerful Urinary Antiseptic.
Gonorrhœa, Cystitis, Prostatitis, Catarrh
of the Bladder, Renal Tuberculosis,
Hypertrophy of the Prostate, etc. etc.

Price 5/- and 11/- per box.

JUBOLITOIRESScientific Suppositories.
Hæmorrhoids, Rectitis, Anal Fistula,
etc.
Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

URODONALPowerful Uric Acid Solvent.
Rheumatism, Gout, Arterio-sclerosis,
Stones, Gravel, Sciatica, Neuralgia and
all Uric Acid disorders.

Price 5/- and 12/- per bottle.

VAMIANINENew Scientific Preparation for Syphilis,
Chronic Skin Affections, Psoriasis,
Eczema, Acne, etc.

Price 11/- per bottle.

GYRALDOSEAntiseptic for local Gynæcological use.
Leucorrhœa, Metritis, Salpingo-Ovaritis,
Discharges, etc.

Price 4/- per box.

FANDORINEInternal remedy for Women's diseases,
Metrorrhagia, Dysmenorrhœa, Irregularities,
Pregnancy, Lactation, Pains, etc. etc.

Price 5/- and 11/- per bottle.

SINUBÉRASERemedy for Intestinal Disorders, Dysentery,
Diarrhœa, Dyspepsia, Enteritis, Infectious
Diseases, Skin Eruptions, etc. etc.

Price 5/- per bottle.

FILUDINE

Specific for the Liver.

Malaria, Diabetes, Cirrhosis, Sluggish
Liver, Tuberculosis, etc.

Price 11/- per bottle.

Heppells

BRITISH AND COLONIAL AGENTS—

Foreign Chemists, 164 PICCADILLY, LONDON, W.

Stocked by all Wholesalers. Now being largely advertised.

**QUININE &
QUININE SALTS***Quality and Colour Unsurpassed.*

Sugar-coated Quinine Tablets.

Sugar & Silver-coated Quinine Pills.

Gelatine-coated Oval Quinine Pills.

CINCHONIDINE	-	} & SALTS
CINCHONINE-	-	
QUINIDINE	-	

SAMPLES AND PRICES ON APPLICATION.

BANDOENG QUININE FACTORIES (BANDOENG, JAVA
AMSTERDAM, Keizersgracht 173.

Telegrams: "Kininefabriek Bandoeng"; "Schalkwyk Amsterdam."

GOLD MEDAL AND DIPLOMA, PARIS, 1900.

J. F. Macfarlan & Co.

EDINBURGH AND LONDON.

MANUFACTURERS OF

MORPHIA ^{AND ITS} SALTS.**CODEIA ^{AND ITS} SALTS.**ALL OTHER OPIUM PRODUCTS, AND ALL
:: ITS SYNTHETIC DERIVATIVES. ::Apomorphine Muriate.
Cotarnine (Stypticin).
Chrysarobin.Euonymin.
Emetine.
Gingerine.Narcotine.
Salicin.
Strychnine.Veratrine.
Spirituos
Galenicals in Bond.

Macfarlan's Pure Chloroform.

A definite Chemical Compound, answering British Pharmacopœia and all other Official Tests. The purity and excellence of Chloroform do not depend on the sources of its preparation, but on the skill and care with which it is prepared.

Is extensively used in the principal Hospitals and Infirmaries.

"Comparing 'pure,' 'Methylated,' and other Chloroforms, no evidence is afforded of any kind being safer than another."—BRIT. MED. ASSOC., Report of the Anæsthetics Committee, July 1900.

Macfarlan's Anaesthetic Ether.

(As used by the late Dr. THOMAS KEITH.)

After long trial, both in Hospital and in Private Surgical Practice, our Anæsthetic Ether has acquired special preference and repute, and is guaranteed to be unsurpassed in quality by any other made from whatever source.

MACFARLAN'S ANTISEPTIC DRESSINGS AND APPLIANCES.

Prepared from the Special Formulæ of the late LORD LISTER, and guaranteed to contain full percentage of antiseptic substance. Since their introduction in 1871 these Dressings have continued to merit the confidence and approval of the Profession.

TELEGRAMS: "CARNEBROS."
TELEPHONE: DALSTON 3580
(2 LINES)

CARNEGIE BROS.

INVITE INQUIRIES FROM THE
WHOLESALE AND EXPORT
TRADES FOR
FINE CHEMICALS
AND
SURGICAL DRESSINGS

DETAILED ANNOUNCEMENT
APPEARS IN THE 1916 DIARY

227/229 ESSEX ROAD,
LONDON, N.

THE BRITISH DIAMALT COMPANY

ARE NOW SELLING
DIRECT TO CHEMISTS

- | | |
|-------------------|--|
| 1. Dry DIAMALT | 5. Liquid DIAMALT
(with 15% by weight
of Cod Liver Oil). |
| 2. DIAPARAFFIN | |
| 3. MALTOLACTON | 6. Liquid DIAMALT
(with 33% by weight
of Cod Liver Oil). |
| 4. Liquid DIAMALT | |

ON P.A.T.A. LIST.

Head Office: BISHOP STORTFORD

P. H.
MILNE
COMPANY

MAKE

SAMBUCI

HEALING OINTMENT

AT

169
Brixton Rd.,
S. W.

Fred^k Boehm

LIMITED,
LONDON.

Established
1888

Incorporated
1908



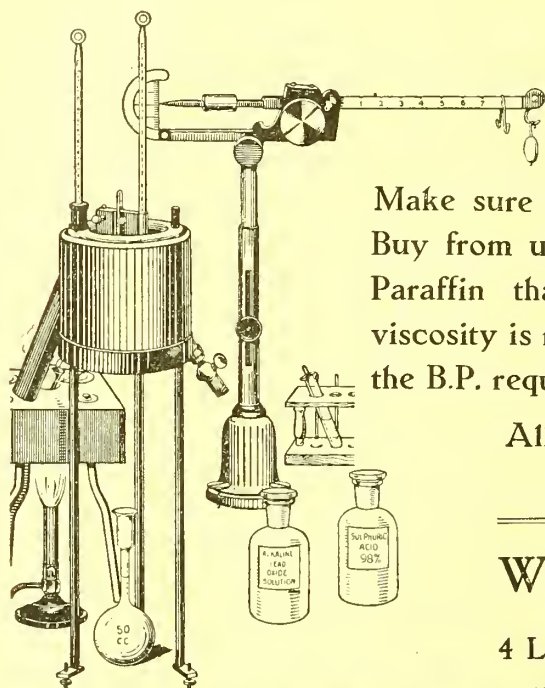
*Ready for
Immediate
Delivery.*

Acetanilid
Acid Pyrogallie
Cadmium Sulphide
Chlorophyll
Eserine Salts
Hydroquinone
Ichthyol Substitute
Paraformaldehyde
Paraldehyde
Pilocarpine
Potassium Iodide
Salol
Silver Proteinate
Strychnine
Sulphonol
Terpinhydrate
Veratrine

*Special quotations on inquiry.
Wholesale quantities only.*

16, JEWRY STREET, E.C.

RUSSIAN LIQUID PARAFFIN, B.P. 1914.



THE "Lancet" of Aug. 12, 1916, says:—

"We have evidence to show that there have recently appeared in various parts of England, oils (*Liquid Paraffin*) from American sources which have been distilled from unsuitable crude material, and are not refined to the extent that is desirable for medicinal purposes."

Make sure that you are not getting such inferior oil. Buy from us. You can rely on the *Russian Liquid Paraffin* that we supply. Its quality is right, its viscosity is right, and it answers in letter and spirit all the B.P. requirements.

All quantities from 1 gallon upwards supplied.

Send for Booklet, "*Liquid Paraffin Notes*."

Wm. BROWNING & CO.,

Manufacturing and Export Chemists,

4 Lambeth Palace Road,

LONDON, S.E.

Telephone: Hop 3217.

Telegrams: "Semprolin Lamb, London."

SYRUP

ROBORANS

(ROBERTS).

Recognized by the Medical Profession
as **THE BEST TONIC.**

IN 8 AND 16-OZ. BOTTLES OF ALL
WHOLESALE HOUSES.

ROBERTS & Co.

Pharmaciens,

LONDON.

PARIS.

76 New Bond St., W.

AND

Rue de la Paix, 5.

ROBERTS & CO.

INVITE
INQUIRIES

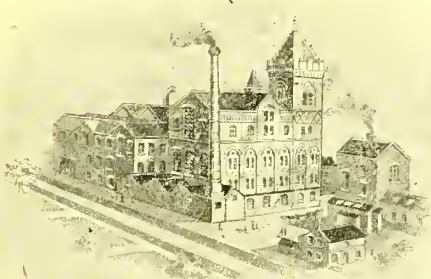
For NEW & RARE

MEDICINES
OF
FRENCH
ITALIAN
AND
RUSSIAN
ORIGIN.



PRICE LIST
sent on application

When You Want Malt Extracts ——— Specify "JOHN BULL."



"John Bull" Malt Extracts are best on account of their Absolute Purity, High Diastasic Strength and Regularity. They do not crystallise or ferment.

**Paine & Co., Ltd.,
St. Neots, Hunts.**

Manufacturers for Wholesale and Export.

Largely increased Production and Sale.

Special Terms to Large Shippers.

PRECIPITATED CHALK

CRETA PRÆCIPITATA (Calc. Carb. Præcip. Leviss.)

SPECIAL QUALITY.

**FINEST, LIGHTEST,
and
PUREST
IN THE MARKET.**



Every particle is passed
through a mesh of
40,000
to the square inch.

NICHOLS CHEMICAL CO., Ltd., Baxenden, Nr. ACCRINGTON.

"The purity of this Chalk is still maintained, and a feature of considerable interest to Pharmacists who pack their own dentifrices is the exceptional lightness of the article. Two ounces of the G. W. N. Brand occupy the space required for three ounces of the denser kinds in the market."—CHEMIST & DRUGGIST.

London Agents: **H. E. STEVENSON & CO.,** 122 Great Suffolk Street, S.E.

Paris Agent.

L. WEILER, 2 Rue Theophile Roussel, 12e.

New York Agents.

P. E. ANDERSON & CO., 99 John Street, New York.

SAL AMMONIAC

...

...

...

...

...

Apply direct. (2)

WOODWARD'S GRIPE WATER

Two Registered Trade Marks.

No. 99.....

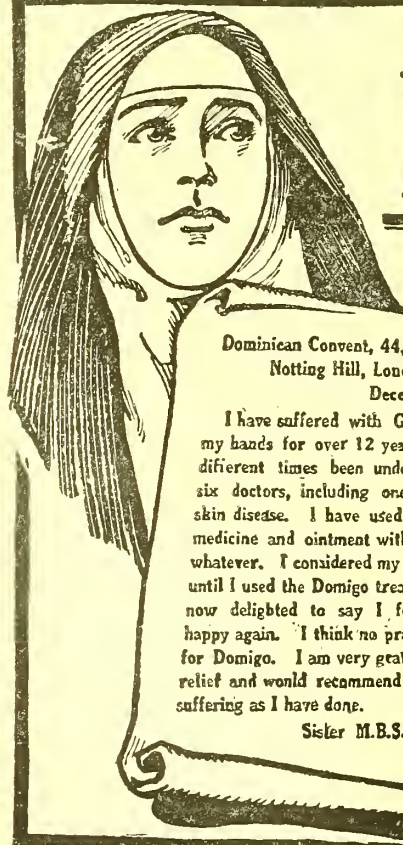


No. 100..... **"GRIPE WATER"**

is intended for the RELIEF of the various SIMPLE and FAMILIAR Ailments of Infants and Young Children, especially during the Period of Teething.

It contains no Preparation of Morphia,
Opium, or other harmful drug.

ON THE PROTECTED PRICE LIST OF THE P.A.T.A.



DOMIGO

THE GREAT

CENTRAL AFRICAN CURE

FOR

**BLOOD AND SKIN
DISEASES.**

*Well advertised. Good Profit on Sales. Handy Form
Trade Terms from*

The Domigo Co.,
168, Aldersgate St., London, E.C.

Dominican Convent, 44, Portobello Rd.,
Notting Hill, London, W.

December 7, 1915.

I have suffered with Gouty Eczema on my hands for over 12 years, and have at different times been under the care of six doctors, including one specialist in skin disease. I have used a quantity of medicine and ointment without any relief whatever. I considered my case incurable until I used the Domigo treatment. I am now delighted to say I feel well and happy again. I think no praise too great for Domigo. I am very grateful for the relief and would recommend it to anyone suffering as I have done.

Sister M.B.S. (O.S.D.)

Sales and yet more Sales!

Below are illustrations of two new posters which, if displayed in a prominent position in or outside your pharmacy, should lead to considerably increased sales of the most efficient and most popular British-made dentifrice available.



No. 56. Euthymol Tooth Paste Poster.



No. 58. Euthymol Tooth Paste Poster.

These posters are being used in our outdoor publicity work, and measure 20 by 30 in. They are printed in a number of colours, the background of the Naval poster being navy blue, and that of the Military poster khaki. They are suitable for fixing to a window, door, mirror, or other prominent place where they will catch the public eye, and when thus displayed should result in an increased share of the passing trade. If you can display two or more of these posters tell us on a postcard now.

In spite of considerably increased manufacturing costs the retail and wholesale prices of Euthymol Tooth Paste remain the same. For terms and full particulars of selling aids apply to

PARKE, DAVIS & CO.,
50-54, BEAK STREET, LONDON, W.

Laboratories: Hounslow, Middlesex.

'PHONE : WILLESSEN 1177.

S. TOLKOWSKY,

57 St. Gabriel's Rd., CRICKLEWOOD, LONDON, N.W.
(London Representative of I. L. Goldberg, Russia.)

INQUIRIES SOLICITED FOR

Russian Crude Drugs.

Wormseed (Semen Contra)
Hyoscyamus Leaves
Herba Rorellæ (Sundew Herb)
Lycopodium
Aniseed
Ergot of Rye
Licorice Root

Carbonate of Potash
Calamus Root
Boletus Cervinus
Gum Galbanum
" Ammoniac
" Tragacanth
Frangula Bark

Cantharides
Salianski Isinglass
Blood Albumine
Musk Cabardine
Coriander Oil
Anise Oil

STOCKS IN LONDON.

MAGNUS, MABEE & REYNARD, Inc.

257 Pearl Street,

Cable Address—
"MAGLAUR."

New York City, U.S.A.

Importers and Manufacturers.

ESSENTIAL OILS, VANILLA BEANS, DRUGS & CHEMICALS.

We offer for sale—

Oil Peppermint, American	Oil Sassafras, Natural
" Spearmint	" " Artificial
" Birch (Wintergreen)	" Wormseed, Baltimore
" Wintergreen Leaf	" Wormwood, American
" Cedarwood	" Sandalwood, W.I.
" Limes, Distilled	Balsam Tolu
" " H.P.	" Copaiba
	" Peru

We solicit correspondence relating to the purchase or sale of any article used in the Drug, Perfumery or Soap Trades.

Monsanto Chemical Works, ST. LOUIS, MISSOURI, U.S.A.

Manufacturers of
ACETANILID.

ACETPHENETIDIN
(PHENACETIN).

CAFFEINE
(Pure Alkaloid).

CHLORAL HYDRATE.

COUMARIN.

GLYCEROPHOSPHATE OF CALCIUM.

Glycerophosphate of Sodium
Pure Crystals.

Glycerophosphate of Sodium
Pure Crystals Powdered.

GLYCEROPHOSPHATE of SODIUM 75%

Glycerophosphate of Potassium 75%

Also Glycerophosphate of Iron, Manganese,
Magnesium.

Phenolphthalein. Saccharin. Vanillin.

New York Branch : Platt and Pearl Streets.

SANTONINE PURE CRYSTALS

Exclusive Exporter from Russia to the whole world:

I.L. GOLDBERG (Petrograd, Moscow, Wilna, Odessa)

London Representative:

S. TOLKOWSKY, 57 St. Gabriel's Rd., Cricklewood, London, N.W.

(Telephone: Willesden 1177).

Authorised Agents:

France: STRASS & SASSÉ, 54 Quai de Jemappes, Paris.

Italy: FRENCH & COTTA, 19 Via S. Vittore al Teatro, Milan.

India: A. P. C. TOLKOWSKY, Dadina Buildings, 107/109 Dhunji St., Bombay.

Japan: L. POISNER, Kawaguchi No. 4, Osaka.

U.S.A.: B. PRESMAN, 74 West 91st Street, New York.

STOCKS IN LONDON, PARIS, MILAN, BOMBAY, OSAKA, & NEW YORK.

Manufacturers of

VANILLIN

Terpinhydrate

ALL KINDS.

Thymol, B.P.

Heliotropine

Iso-Eugenol

Oil Pimento, B.P.

Oil Oxidised Turpentine

Terpinolene, &c.

VERONA CHEMICAL CO.

NORTH NEWARK, N.J., U.S.A.

Write Address: "Kaplan Newark."

Code: A B C, 6th Edition.

BECKER, SHILLAN & CO.,

40 EASTCHEAP, E.C.,

OFFER

EPSOM SALTS

DRUGGISTS' QUALITY,

£13 0 0 per ton in 3 cwt. kegs.

EPSOM SALTS

COMMERCIAL,

1 cwt. bags at £11 per ton.

Telep.: AVEN. 5333.

„ 5334.

Telegrams:

„ BECKDIETZ."

And at 15 STANLEY STREET, LIVERPOOL.

POTTER & CLARKE, Ltd.

60, 62 and 64 Artillery Lane, London,
And at 24 Luna Street, Great Ancoats, Manchester

WHOLESALE & EXPORT CHEMISTS AND DRUGGISTS

Importers of Crude Drugs from all
parts of the World.

Manufacturers of Coated Pills and
Compressed Tablets.

Makers of Fluid and Solid Extracts.

Packers of Toilet Specialities and
Proprietary Articles.

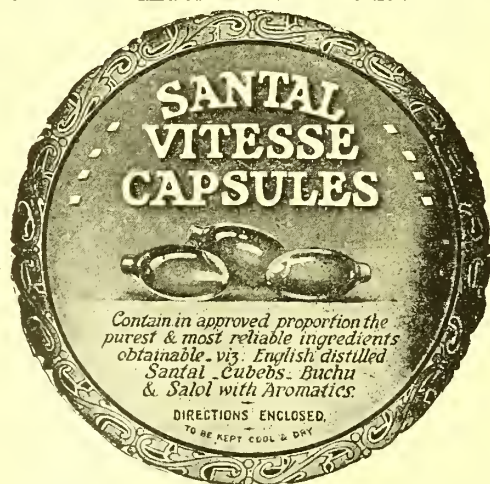
Makers of Lozenges, Jubes, &c., for
Chemists' Trade.

Packers of Flower and Vegetable Seeds.

Proprietors of Potter's Asthma Cure
and other Specialities.

Growers of Medicinal Plants.

Publishers of Potter's Cyclopædia of
Botanic Drugs.



We guarantee this combination to be one of the most genuine and reliable on the market. The ingredients stated upon the label are absolutely pure.

2/6 boxes containing 24 ... 18/- doz.
3/6 " " 36 ... 25/- "

RETAIL PRICES PROTECTED.

Neat Showcard with all orders.

POTTER & CLARKE, LTD

60-64 ARTILLERY LANE, LONDON, E.

And at 24 LUNA STREET, MANCHESTER.

MANUFACTURERS OF

FLEXIBLE CAPSULES

We have recently installed new machinery for the manufacture of Capsules and Perles, and have now one of the most modern plants in the United Kingdom.

The "Winged Lion" Capsules do not shrink, contract or go mouldy, but retain their flexibility for any length of time.

All Capsules are filled with the purest ingredients and are guaranteed effective.

SANTAL CAPSULES.—We would specially direct your attention to the fact that we use the finest "English drawn Santal Wood Oil" only, guaranteed pure, in our Capsules.

CAPSULE LIST SENT ON RECEIPT OF BUSINESS CARD.

N.B.—Prices quoted herewith are for preparations according to the New Pharmacopœia, 1914.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below:

N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

- A** cetanilide, B.P., 1 lb. @ 6/- lb.; powder, 1 d. lb. extra.
- *Acet. Ipecac., B.P., 6 lbs. @ 2/4 lb.
- " Scilla, P.B., 6 lbs. @ 5d. lb.
- *Acid. Acet. Glacial, 99%, 6 lbs. @ 3/- lb.
- " Acetylo-Salicyl. 1 lb. @ 39/6 lb.
- " Benz, B.P., 7 lbs. @ 26/- lb.; 1 lb. @ 27/- lb.
- " Boric Pulv., 3 cwt. @ 61/9 cwt.; 1 cwt. @ 62/9 cwt.; leviged, 3/- cwt. or 1 d. lb. extra.
- " Carbol. Xtls., 39/40; 56 lb. drums @ 2/1 lb.; 121-lb. Bots. @ 2/4 lb.; Single Bots. @ 2/6 lb.; Detached Cryst. 1 lb. @ 2/8 lb.; Crude Black, 45 gall. casks @ 1/1 gall.; 5 gall. drums @ 1/8 gall.; 1 gall. tins @ 2/6 each.
- " Citric, cryst., B.P., '85, 7 lbs. in bags @ 3/4 lb.; powder, 1 d. lb. extra.
- " Diethylbarbituric, 1 oz. @ 5/6 oz.
- " Gallic, pur., P.B., 7 lbs. @ 7/3 lb.; 1 lb. @ 7/6 lb.
- " Hydrobrom., 6 lbs. @ 2/8 lb.
- " Hydrochlor. Coml., cases of 4 2-gal. jars, 28/6 each; 20 case lots @ 27/6 each.
- " Hydrocyan. P.B., 6 lbs. @ 1/7 lb.; 1 lb. @ 2/- lb.; 36 1-oz. Vials @ 7/6 doz.
- " Oxalic Cryst., 1 cwt. @ 2/0½ lb.; 14 lbs. @ 2/2 lb.
- " Phosph. Dil. B.P., 6 lbs. @ 5d. lb.
- " Salicyl. pulv. 1 lb. @ 13/6 lb.
- " Sulphur, Coml., cases, 4 2-gal. jars @ 36/- each; 20 cases @ 35/- each.
- " Sulph. Aromat. B.P., 5 lbs. @ 4/4 lb.
- " Tannic, B.P., 1 lb. @ 6/- lb.
- " Tart., cryst. or pulv. B.P., 1885, 7 lbs. @ 3/4 lb.; parv. 1 d. lb. extra.
- Adeps Benz., B.P., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.
- Ærugo Æris Pulv., 14 lbs. @ 1/5 lb.
- Aloes Barb., English-ground, 28 lbs. @ 120/- cwt.; 7 lbs. @ 1/3 lb.
- Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/6 lb.
- Aloin, B.P., 1 lb. @ 5/6 lb.
- Ammon. Benz., 7 lbs. @ 26/- lb.; 1 lb. @ 27/- lb.
- Ammon. Brom. P.B., 7 lbs. @ 6/6 lb.
- Ammon. Carb. lump, 3 cwt. @ 8d. lb.; 28 lbs. @ 9d. lb.; 7 lbs. @ 9½d. lb.; powder, 1 d. lb. extra.
- Ammon. Chlor., 99% pulv., 1 cwt. @ 59/- cwt.; 7 lbs. @ 7½d. lb.; Batteries, 6/- cwt. extra.
- Amyli Pulv., 10 cwt. @ 20/- cwt.; 2½ cwt. @ 31/- cwt.; 1 cwt. @ 32/6 cwt.
- Aniseed, English ground, 1 cwt. @ 62/- cwt.; 7 lbs. @ 7½d. lb.
- Antim. Nig. Pulv., 7 lbs. @ 1/2 lb.
- Antim. Tart. Pulv., 7 lbs. @ 3/6 lb.
- Apiol, 1 lb. @ 29/- lb.
- *Aqua Anetbi Conc. 1-40, 1 lb. @ 3/5 lb.
- " Anist Conc. 1-40, 1 lb. @ 3/5 lb.
- " Aurant. Conc. 1-40, 1 lb. @ 6/8 lb.
- " Aurant. Trip., 6 lbs. @ 8d. lb.; 53 lbs. for 23/-
- " Cinnam. Conc. 1-40, 1 lb. @ 3/10 lb.
- " Laurocerasi, 6 lbs. @ 8d. lb.
- " Mentb. Pip. Conc., 1-40, 1 lb. @ 3/6 lb.
- " Rosæ Conc. 1-40, 1 lb. @ 7/6 lb.
- " Rosæ Trip., 53 lbs. for 25/-; 6 lbs. @ 8d. lb.
- " Samb. Conc., 1-40, 1 lb. @ 6/8 lb.
- " Samb. Trip., 6 lbs. @ 8d. lb.
- Araroba, fine powder, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.
- Argent. Nit., 6's to oz., 25 oz. @ 2/3 oz.; 1 oz. @ 2/4½ oz.
- Argent. Nit., Cryst., 25 oz. @ 2/1 oz.; 8 oz. @ 2/2 oz.
- Arsenic, Alb. Pulv., 2 cwt. @ 43/6 cwt.; 7 lbs. @ 5½d. lb.
- Atropinæ Sulph., P.B., 1 oz. @ 165/- oz.
- Auri Chlor., 6 doz. 15 gr. tubes @ 22/6 doz.; 1 doz. 15 gr. tubes @ 22/9 doz.
- *Bals. Copaibæ, pure, 44 lbs. @ 3/2 lb.; 9 lbs. @ 3/6 lb.; 1 lb. @ 3/9.
- " Peruv., P.B., 1 lb. @ 20/- lb.
- " Sulphur, 7 lbs. @ 1/- lb.
- " Tolut. B.P., 50 lbs. @ 2/- lb.; 1 lb. @ 2/10 lb.
- Bismuth, P.B., Carb., 3 lbs. @ 13/6 lb.; 1 lb. @ 14/- lb.; subnit., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
- " Salicyl. 1 lb. @ 24/- lb.
- Boracic Mixture, 1 cwt. @ 85/- cwt.
- Borax, 1 cwt. @ 37/-; powder 1/- extra.
- Butyl-Chloral Hydras., P.B., 1 lb. @ 1/- lb.
- Caffeine, P.B., 1 lb. @ 40/- lb.
- Caffeinæ Cit., B.P., 1 lb. @ 25/6 lb.
- Calamina, powder, fine pink, 5 cwt. @ 18/- cwt.; 1 cwt. @ 19/6 cwt.; 7 lbs. @ 2½d. lb.
- Calamine, B.P., 1885, 7 lbs. @ 1/3 lb.
- Calcii Carb. Præcip., 5 cwt. @ 18/6 cwt.; 1 cwt. @ 23/- cwt.; 28 lbs. @ 27/6 cwt.
- " Hydras., P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.
- " Hypophosph. Pur., P.B., 1 lb. @ 3/6 lb.
- " Iodid., 1 lb. @ 21/5 lb.
- Campbor, English Flowers, "not artificial," 5 lbs. @ 2/6 lb.; ½ oz. or 1 oz. 7 lbs. @ 2/7 lb.; good white, about 95% as imported, 140 lbs. @ 1/9½ lb.; 28 lbs. @ 1/10½ lb.
- Capsicine, soluble, 1 lb. @ 9/6 lb.
- Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 25/- cwt.; 28 lbs. @ 3½d. lb.
- Cardamoms, 28 lbs. @ 3/3 lb.; 7 lbs. @ 3/6 lb.
- Carmine, Finest, 1 lb. @ 30/- lb.; No. 2, 1 lb. @ 25/- lb.
- Cera Alba, B.P., White Moons, 28 lbs. @ 2/2 lb.; 4 lbs. @ 2/4 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 1/9½ lb.; 4 lbs. @ 1/10½ lb.; 1 oz., ½ oz. tabs., 7 lbs. @ 1/10½ lb.
- Cerii Oxalas, 1 lb. @ 6/6 lb.
- Cetaceum, No. 1, fine white, 64 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb.; powder, 7 lbs. @ 1/7 lb.
- Chloral Hydras Cryst., B.P., 7 lbs. @ 13/- lb.; 1 lb. @ 13/6 lb.
- Chlorodyne, 5 lbs. @ 2/6 lb.
- *Chloroform, pure, B.P., 12 8-lbs. @ 3/2 lb.; 8 lbs. @ 3/3 lb.; 6 1-lb. bots. @ 3/7 lb.
- Codeina, 1 oz. @ 2/6 oz.; Phosph., 1 oz. @ 19/- oz.; Hydrochlor. or Sulph., 1 oz. @ 20/- oz.
- Colocynth, Apple, English ground, 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/7 lb.
- Composition Powder (Coffin's), 1 cwt. @ 62/- cwt.; 7 lbs. @ 8d. lb.
- Conf. Sennæ, P.B., 14 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.
- Cort. Aurant. Exot. Shreds, 7 lbs. @ 2/4 lb.
- " Cinchon. Rub. (Quill), 7 lbs. @ 1/7 lb.
- " Ulmi Fulvæ, Pulv., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1 lb.
- Cream of Tartar, 98% powder, 1 cwt. @ 200/- cwt.; 7 lbs. @ 1/11 lb.
- Creasote, Beechwood, P.B., 7 lbs. @ 17/- lb.
- Creta c. Campb., 7 lbs. @ 10d. lb.
- " Gall. Pulv., in sacks, 10 cwt. @ 9/- cwt.; 1 cwt. @ 11/- cwt.; 14 lbs. @ 1½d. lb.
- " Præparata, 7 lbs. in box @ 1/2 each.
- Cubebæ, English Ground, 28 lbs. @ 2/6 lb.; 7 lbs. @ 2/8 lb.
- *Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/- lb.; Sinecroco, 6 lbs. @ 1/3 lb.
- " Cinchonæ (Rubræ) Conc., 1-7, 6 lbs. @ 2/2 lb.
- " Senegæ Conc., 6 lbs. @ 2/10 lb.
- Emp. Spread, 12 yards × 16 ins. adhesive, 6/-; Bellad. B.P.C., Green @ 28/6; Cerat. Saponis @ 12/4; Picis Co @ 12/4; Plumbl @ 10/-; Resinæ @ 7/6; Roborans @ 11/6; Saponis, B.P., @ 10/-
- Emp. Picis, P.B., 7 lbs. @ 1/1 lb.
- " Plumbi, P.B., 7 lbs. @ 11d. lb.
- " Resinæ, P.B., 7 lbs. @ 11½d. lb.
- " Roborans, 7 lbs. @ 11½d. lb.
- Emulsio Ol. Morrhuæ, 5 lbs. @ 1/7 lb.
- Eserine Sulph., in 15-grain tubes, 8/3 each.
- Ess. Bergam. (Oil), 12 lbs. @ 13/- lb.; 1 lb. @ 14/- lb.; not guaranteed absolutely pure.
- Ess. Limonis (oil) original coppers, 12 lbs. @ 4/3 lb.; 6 1-lb. bots. @ 4/9 lb.; not guaranteed absolutely pure.
- *Ess. Moschi (not artificial), 5 lbs. @ 13/6 lb.; 1 lb. @ 14/3 lb.
- *Ess. Pear (artificial), Jargonelle, 5 lbs. @ 3/9 lb.; Bergamot, 4/3 lb.
- *Ess. Pineapple, 5 lbs. @ 4/- lb.
- " Raspberry, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
- " Vanilla Beans, 5 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.
- *Ext. Belladonnæ Liq., B.P., 5 lbs. @ 18/6 lb.; 1 lb. @ 19/- lb.; solid, 7 lbs. @ 12/- lb.
- Ext. Cannab. Ind., Alc., B.P., 1 lb. @ 54/- lb.
- Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/7½ lb.; 10 lbs. @ 1/10 lb.
- *Ext. Ergot. Liq. P.B., 5 lbs. @ 4/8 lb.; 1 lb. @ 5/2 lb.; Solid, P.B., 4 lbs. @ 25/- lb.; 1 lb. @ 26/6 lb.
- Ext. Gent., P.B., solid, 1 cwt. @ 2/- lb.; 7 lbs. @ 2/2 lb.
- *Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 2/7 lb.
- *Ext. Hamamelis Liq., P.B., 5 lbs. @ 3/11 lb.
- Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
- *Ext. Ipecac. Liq., P.B., 5 lbs. @ 24/- lb.; 1 lb. @ 25/- lb.
- Ext. Malti c. Ol. Jecoris, 10 lbs. @ 10d. lb.
- *Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.; solid, 5 lbs. @ 4/6 lb.; 1 lb. @ 5/- lb.
- Ext. Opii Solid, P.B., 1 lb. @ 72/- lb.
- *Ext. Opii Liq., B.P., 5 lbs. @ 5/7 lb.; 1 lb. @ 6/2 lb.
- Ext. Quassia, Solid, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.
- Ext. Sarsæ Co. Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.
- Ferri Ammon. Cit., P.B., 28 lbs. @ 4/5 lb.; 7 lbs. @ 4/7 lb.
- Ferri Carb., 14 lbs. @ 6d. lb.
- Ferri et Quinina Cit., P.B., 100 ozs. @ 1/1 oz.; 25 ozs. @ 1/0½ oz.
- Ferri Sulph., pure cryst., 1 cwt. @ 7 lbs. @ 3½d. lb.
- Ferrum Redact., 80%, 7 lbs. @ 7/6 lb.; 1 lb. @ 7/10.
- Flor. Anth. Exot., 7 lbs. @ 1/8 lb.
- Fol. Buchu, oval, 7 lbs. @ 2/10 lb.
- Fol. Sennæ Alex. parv., 28 lbs. @ 1/1 lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

NOTE.—Only terms Net Cash with Order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

DR. J. COLLIS BROWNE'S CHLORODYNE

Revised Prices and Terms :

OCTOBER 1915.

Size	....	....	....	1/3	3/-	5/-	12/-
Minimum Retail Price				1/2	2/10	4/9	11/6
PRICE TO TRADE				11/9	29/6	48/9	117/6
(Per Dozen)							

Discount: 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged 3d. on £2 parcels or under, and 1d. for each extra £1 worth, and are not returnable. Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms.

Dr. J. Collis Browne's

Chlorodyne

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

J. T. DAVENPORT, Ltd., Proprietors,
117 Union Street, S.E.

TRADE MARK

MANUFACTURERS
AND
REFINERS
— of —
"SILVERCREST"
LANOLINES
ADEPS LANÆ
HYDROUS ANHYDROUS

Hillcrest Oil Co (BRADFORD) Ltd.
CLAYTON, MANCHESTER.
WORKS: BRADFORD & MANCHESTER

SPUN (Regd. Trade Mark) OINTMENTS**FOR HOME TRADE AND FOR EXPORT.**

Are fully covered by warranty "B.P.," or, "to formula.

Are manufactured to suit the climate in which they are to be used.

Are delivered carefully packed in airtight tins, unless unsuitable or otherwise order

Always arrive in good condition.

Are the lowest priced Ointments on the market, and for **QUALITY ARE UNEQUALLED****GOOD STOCK OF ALL MATERIALS.****ROBERT BLACKIE, Wholesale Manufacturing Chemist**
SHEN WORKS, TOWER BRIDGE ROAD, LONDON, S.E.**GOOD! IT'S MASON'S**
The Drink for the MassesMillions of glasses used daily
by workers all over the Empire*Please allow us to Sample and Quote—***Citrate Magnesia****Health Salt****Salines****Liver Salt****Blood Salt****Sulph. & Sarsap. Salt****Lemonade****Crystals, &c.****NEWBALL & MASON**
NOTTINGHAM**Daggett & Ramsdell's**
PERFECT
COLD CREAM

ON THE P.A.T.A.

Always Selling
Always Satisfies Customers
Yields a Good Profit*From all Wholesalers, or
direct from the Sole Agents***The A.D.S. Co.**
6 Northumberland Avenue, London, W.C.

EVERY GENUINE PACKAGE



BEARS THIS LABEL

EWEN'S LARDis the
ONLY LARD
that
is made exclusively
for pharmaceutical
and perfumery
preparations
and is the**BEST AND
MOST RELIABLE**Guaranteed B.P.
Lard on the Market.**Handbills Free—**Will be immediately sent carriage paid
to your address on receipt of a postcard.
Keating's Powder has a very ready sale
throughout the summer, and invariably
gives satisfaction to your customer.**Thomas Keating,**
50/52 Union St., London, S.E.

THE NOTED HOUSE FOR
RUBBER TUBINGS
RUBBER HOT WATER BOTTLES
RUBBER GLOVES
WATERPROOF AND OILSKIN COATS
ELASTIC HOSIERY
ANYTHING IN RUBBER
THE ALTRINCHAM RUBBER COMPANY
MOSSBURN BUILDINGS, ALTRINCHAM.

YOUR FARMER FRIENDS REQUIRE CORVUSINE D.G.

The Original and Genuine
SEED DRESSING

IN GREAT DEMAND BY ALL FARMERS.

Agencies should be fixed up now in time for Autumn business.

Terms and full particulars from Manufacturers:

HAWKER & BOTWOOD, Ltd., 59 Mark Lane, London, E.C.

EXCELSIOR CREPE BANDAGES. FAST EDGE.

Owing to the War, the supply of Crepe Velpau Bandages is discontinued. We are, therefore, placing on the market a Bandage of ENGLISH manufacture to replace it, which will be sold as



GIMBER'S EXCELSIOR
CREPE BANDAGE

An Elastic Bandage. Containing no Indiarubber. TRADE MARK Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes, about 2, 2½, and 3½ inches wide. Excelsior Crepe Abdominal Binders.—Useful after many Abdominal Operations, and for ladies after confinements. Two sizes: 8 & 11 in. wide.

CAUTION—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Mark on the Wrappers.

W. GIMBER & SON, Surgical Bandage and Instrument Makers, 44 Queen's Rd., PECKHAM, LONDON, S.E. And of all Wholesale Druggists, Chemists, Surgical Instrument Makers, &c. Telephone: New Cross 1601. Descriptive Circular & Price List on application.

Enamelled Hospital Requisites



Aqua-Pura
Water Still.



Drinking Cups, Douches,
Bed Pans, &c.

HIGHEST
QUALITY.
PERFECT
PACKING.

BRITISH
MANUFACTURE.

Write for
Catalogue.

ORME, EVANS & CO., LTD. Works: Wolverhampton, England.
Showrooms—London, Sydney, Capetown, Montreal, Vancouver.

A return of 50% to 65%
on outlay can be made by all
Chemists who will handle
'HOME' BATH CABINETS.

BRITISH-MADE THROUGHOUT.

To give you a fair start, we offer a Sample Cabinet complete, and a supply of strong selling literature at the following cut prices, Cash with Order.

With Inside Spirit Heater 25/9, Retailing at 38/6
„ Outside „ „ 35/3, „ 49/6

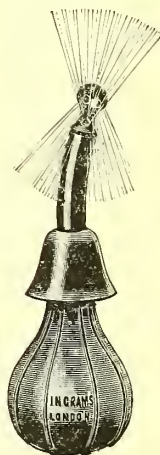
Riley Bros. (1914) Ltd., Bradford
THE ONLY MAKERS TO THE TRADE.

INGRAM'S WHIRLING SPRAY

FITTED WITH RAINE'S
PATENT VULCANITE MOUNT

(Patent No. 14433/15)

For producing by single
pressure of the Bulb
two sprays that operate
in opposite directions.



CONSTRUCTED
UPON THE
LATEST
SCIENTIFIC
PRINCIPLES

Made of High-Grade
Quality Rubber.

Prices obtainable from
all Wholesale Houses.

MANUFACTURERS:—

INGRAM'S—LONDON

FROM ALL SUNDRY DRUG HOUSES.

2^D MEND-IT 2^D

For THE WORLD'S STRONGEST ADHESIVE. For

CHINA
WOOD
STATUARY
MOSAIC WORK
BONE
FRETWORK

GLASS
TOYS
ORNAMENTS
MODELS
LEATHER
ETC.

AS FIRM AS A ROCK

INVALUABLE IN HOME SCHOOL OFFICE AND WORKSHOP

MENDS EVERYTHING.

1-DOZ SHOWCASES. MENDIT LTD., BIRMINGHAM

ERNEST JACKSON & CO.

Manufacturing Chemists. LIMITED.

Specialists in MEDICATED LOZENGES, PASTILLES, JUJUBES, COMPRESSED TABLETS, CAPSULES, PERLES, CACHOUS, BOILED GOODS, SALINES, &c. &c.

IMPORTERS of LIQUORICE JUICE
and makers of
THE ORIGINAL cushion-shaped
LIQUORICE & MENTHOL PELLETS.WORKS & OFFICES: **CREDITON, DEVON.**LONDON Plantain Place,
DEPOT: Crosby Row,
BOROUGH, S.E.
—Telephone: HOP 2668—TELEPHONE: CREDITON, No. 10.
TELEGRAMS: "JACKSON-CREDITON."**ELECTRIC POCKET LAMPS,
BATTERIES AND BULBS.**New Season's goods now ready for immediate
delivery. Order early to avoid disappointment.**SPECIAL LINES IN AMERICAN FIBRE TORCHES.**
Send for samples without delay.

Millard Bros., Ltd., 123 Houndsditch, London, E.C.

A. MILLAR & CO., LTD., DUBLIN
PURE ORANGE WINE

(VINUM AURANTII B.P.)

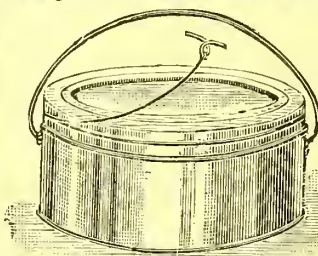
Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

C. MELIN & CO. ESTABLISHED 1865.*7 India Street, Crutched Friars, London, E.C.*supply **GLASS AMPOULES, TUBES**
and **LAMP BLOWN ARTICLES**

OF EVERY DESCRIPTION. PROMPT DELIVERY.

DIRECT FROM THE WORKS. :: WHOLESALE & EXPORT.**HAVE YOU RECEIVED OUR
NEW CATALOGUE**
Of BOTTLING, TUBE- &
TIN-FILLING MACHINES,
MIXERS, EMULSIFIERS,
ETC.*Up-to-date Plant at Low prices.
Something to meet every need.*WRITE—
ROBERTS' PATENT FILLING MACHINE CO.,
33 ROUNDCROFT STREET, BOLTON, ENGLAND.**The Northern Tin Canister Works,**6 Mersey Street,
LIVERPOOL.We manufacture for
the paint trade in all its
branches—Decorated and
Plain work.**TIGHT SEAMING &
VARNISH BOTTLES
A SPECIALITY.***Patent Air Tight Slip-lid Tin
for Export**Prompt Deliveries Assured.*

WILFRED TURNER & CO., LD.Telephone : 2221 Gerrard.
Telegrams & Cables : "ADVULOID."**30 Craven Street,
Strand, W.C.****Aug. 24, 1916.**

We offer from Stock for immediate delivery

3-Piece Vulcanite Douche Fittings.Single gross, **72/-**; 10 gross @ **68/-**; 25 gross @ **65/-** per gross.**All-Glass Hypo. Syringes in N/P case.**1 cc., **33/-**; 2 cc., **37/6** per dozen.

Special quotations for large parcels and other sizes.

ARRIVING IN SEPTEMBER.**White Enamel Douche Cans, glass holder, graduated.**2-pint, **36/-**; 3-pint, **42/-**; 4-pint, **48/-** per dozen.

Orders executed in rotation—demand exceeds supply.

Hypo.-Needles ("Record" mount), in stock in all sizes.

Prices on application, according to quantity.

We can now supply **"Record" Hypo.-Syringes** at short date.**INDIA - RUBBER GLOVES****For SURGEONS AND NURSES.**These Gloves are made of Pure Gum and are sterilizable. All sizes.
Three qualities.THIN, 8502, **20/3**MEDIUM, 8503, **21/9**HEAVY, 8504, **28/3**

PER DOZEN PAIRS, NET.

Household & Domestic RUBBER GLOVES

When thousands of women are buying Rubber Gloves in order to preserve their Hands, why should not the Chemist secure a share of this important business.


This Glove is made in Three qualities, all sizes.

8500 ... **14/6**8501 ... **16/11**8507 ... **21/3**

PER DOZEN PAIRS, NET.

HENRY C. QUELCH & CO.**4 & 5 LUDGATE SQUARE, LONDON, E.C.**

<p>LADIES' ABDOMINAL and SUPPORTING BELTS ACCOUCHEMENT OUTFITS</p> <p>SANITARY TOWELS BATHING CAPS BATH GLOVES SPONGE BAGS HOLDALLS ETC. ETC.</p> <p>ESTABLISHED 1850</p>	 <p>PERFECTUM DOUCHE CANS (ALUMINIUM) ENAMELLED IRON DOUCHE CANS HOT WATER BOTTLES AND COVERS</p> <p>ARTHUR BERTON, Ltd. Manufacturers, 15 and 17 WORSHIP STREET, } LONDON, E.C. 2a TABERNACLE STREET, BEN MILLS & WATERFOLD MILLS, BURY, LANCASHIRE. SAMPLES AND QUOTATIONS ON APPLICATION.</p>	<p>GAUZE TISSUE (AS GAMGEE) CAPSICUM (METHYL SALICYLATE) PINE WOOL COTTON WOOLS BANDAGES GAUZES LINTS PADS</p> <p>Telegrams:— "Renilreb London." Telephones:— City 998. London Wall 507.</p>
--	--	---




INDIA RUBBER

(Red Mineralized and Arabesque).

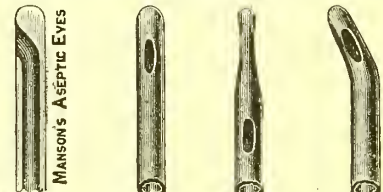
SURGICAL, CHEMICAL, DOMESTIC ARTICLES, SYRINGES, ENEMAS, WATER BEDS.

Manufacturers of every description of **INDIA RUBBER**, Wholesale & Export only.

WM. WARNE & CO., Ltd., 29 Gresham Street, LONDON, E.C.



[See p. 425 "C. & D." Diary 1916]



MANSON'S ASEPTIC EYES

R. MANSON,

Culvert Works, Culvert Road, South Tottenham, London, N.

WHOLESALE AND EXPORT ONLY.

Manufacturer of **CATHETERS** and **BOUCIES**, **DRUGGISTS'**
SUNDRIES, **SURGICAL RUBBER GOODS** and **DRESSINGS**.

Ask for Price Lists.

VINCENT WOOD

For British Made



Trusses, Belts,
Suspensories,
Elastic Hosiery,
Webbs & Surgical
Appliances.

Purchase no Foreign
Goods, and from
British Firms only.

Victoria House, 91/93 Newington Causeway, LONDON, S.E.

Radiozone (Oxygen) Baths

FOR the administration of Oxygen in a concentrated and highly nascent condition. Specially valuable in cardiac cases, with high arterial tension, in nervous and vaso-motor disturbances, insomnia, and auto-intoxication.

Patentees and Sole Manufacturers:

WRIGHT & CO., Silverlands, Buxton, England.

Prices and Literature on Application.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz.

Plain or graduated.

BEST QUININE, TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz.

Plain or graduated.

WHITE PHIALS.— $\frac{1}{2}$ oz., 1 oz., $1\frac{1}{2}$ oz., 2 oz. Plain or teaspoons.

BLUE LOTION BOTTLES.— $\frac{1}{2}$ oz., 1 oz., $1\frac{1}{2}$ oz., 2 oz., 3 oz., 4 oz.

6 oz., 8 oz., 12 oz.

PANEL BOTTLES.

We send six gross assorted or otherwise, carriage paid within seven miles, and to certain stations. Particulars on application.

CORKS.

Good quality. No advance in price: 6 and 8 oz. bottles, 9d. per gross in 6 gross bags. Vials 6d. per gross in 3 gross bags.

I. ISAACS & CO..

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.

Or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.

Orders sent to either establishment have attention.

Established 100 Years.

**WHOLESALE
ONLY.**

Established
1901.

**Surgical Dressings,
Absorbent Lints,
Bandages, Gauzes, &c.**

Samples and prices on application.

VERNON & CO., Ltd., Penwortham Mills, PRESTON.
Also 9 Fore Street Avenue, London, E.C.

GLASS BOTTLES & GLASSWARE

OF ALL DESCRIPTIONS.

Buyers in India, Australia, and the Far East should send samples
— (two of each) and quantities required for quotations to —

J. L. THOMPSON & CO., P.O. Box 22, KOBE, JAPAN.

Cable Address: "FRANKLIN KOBE."

FULLY ILLUSTRATED CATALOGUE OF SURGICAL INSTRUMENTS SENT POST
FREE ON APPLICATION.

E. YOULDON, LTD.

MANUFACTURERS OF

GLASS BOTTLES

TREBY ST. (late Carter St.),
Maplin St., Mile End, London, E.

ESTABLISHED 1840.

Telegrams: "YOULDON, BOWBUR, LONDON."

Telephone: EAST 132.

THE LIVERPOOL LINT CO.

MARK STREET MILLS,
NETHERFIELD ROAD NORTH,
LIVERPOOL,

MANUFACTURERS OF

LINTS,
BANDAGES,
COTTON WOOLS,
SURGEONS' TOW,
CARBOLIZED TOW,
SPLINT PADDING,
WADDINGS, &c. &c.

As supplied to Home and Foreign Governments.

"IMPERMIETTE" (Waterproof).
"IMPERMIETTE" BED SHEETING.
"HEALTH" CHEST PROTECTORS.
"VULNOPLAST."

ABSORBENT
TISSUE



FIRST FIELD
DRESSINGS

Telegrams:

"LINT LIVERPOOL"

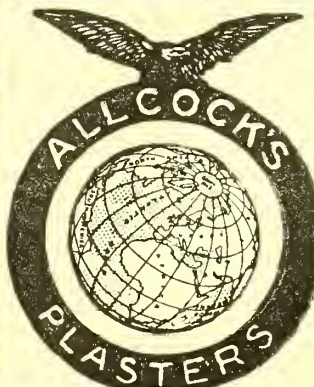
ESTABLISHED 1847.

Allcock's PLASTERS

REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and
Bunion Plasters
Brandreth's Pills

The
Three
Reliables.



Prices and Terms
on
application to

ALLCOCK . . .
MANUFACTURING .
COMPANY . . .
22 Hamilton Sq.,
Birkenhead.

"Sold all round the World."

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.**J. W. PINDAR & CO.,** Druggists' Engineers.**SPECIAL WELDED STEEL GALVANIZED COATING PANS.**Write for our New Illustrated Catalogue, of 24 pages, of **PILL MACHINERY, TABLET MACHINERY, COATERS, TINCTURE PRESSES, CORKING MACHINES, EMULSIFYING MACHINES, SUPPOSITORY MACHINES, PERCOLATORS, DRUG MILLS, SIFTING AND MIXING MACHINES.**

Other Machinery for Manufacturing Druggists and Chemists.

BROCKLEY, LONDON, S.E.

Telephone: New Cross 1065.

**CACHETS "FINOT"**

(White or Coloured).

With inscriptions in any desired tint; also Plain or Embossed.

"Beautifully made, and the inscriptions give them a distinction all their own."—*C. & D.*"Perfection of Cachets."—*Lancet.*These Cachets are especially adapted for Headache, Neuralgia and other powders
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.

In Ten Sizes. Also supplied to fit existing machines.

CACHETS "PELTOT"**ALL SIZES 2/6 per 1000 PLAIN OR EMBOSSED**

Carriage Paid on orders of 5000. Write for Samples.

Sole Agent **CICERO S. CLARK,** Pharmacie Française, 12 Richmond R^d, WESTBOURNE GROVE, LONDON, W.**TOBACCOS ! CIGARS ! CIGARETTES !**

Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied. Opening orders a Speciality. Send for Price List.

SINGLETON & COLE, LTD., Cannon Street, BIRMINGHAM AND BRANCHES.**Van Horn and Sawtell**
—LONDON AND NEW YORK—
MAKERS OF**"K-Y" LUBRICATING JELLY**

IN COLLAPSIBLE TUBES AND OF

"Van Horn" Sterile Sutures and Ligatures

IN GLASS TUBES — PRICES ON APPLICATION

31-33 HIGH HOLBORN, W.C.

GEORGE HAYNES & CO.,

Hampstead Cotton Mills, Stockport.

MANUFACTURERS OF

BLEACHED & ABSORBENT COTTON WOOLS, BANDAGES, &c. &c.FIVE GOLD MEDALS, FIVE SILVER MEDALS, & DIPLOMA OF HONOUR.
The Highest Awards given to any Cotton Wool or Lint Manufacturers.

Telephone: 112 STOCKPORT.

Telegrams: "HAYNES STOCKPORT."

**100 COPIES in Ten Minutes**

of Prescriptions, Handwriting, Typewriting, Drawings, Specifications, Shortland, Maps, Invoices, Music, Menus, etc., on the

PLEX DUPLICATOR

15s., Foolscap Size.

Complete with all supplies. Carriage Paid.
B. PODMORE & Co., Duplicator Specialists, SOUTHPORT
SPECIAL OFFER.—Typewriter Carbon Paper, 3/9 per box of 100 Sheets. 4to or 1cap.**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helens, LONDON, E.C.

Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

DeVilbiss**ATOMIZERS
SPRAYS****FOR MEDICAL AND TOILET USE**

They are Guaranteed

Full Stocks in London

THE DEVILBISS MFG. CO., 71 Newman St., LONDON, W.**JOHN E. RAWORTH**

CHARTERED PATENT AGENT.

PATENTS, TRADE MARKS AND DESIGNS.THE
OLD MANSION HOUSE, and QUEEN ANNE'S CHAMBERS,
73 Cheapside, E.C. WESTMINSTER, S.W.**FORMALDEHYDE 40%
LACTIC ACID.**

WHOLESALE. FOR SPOT DELIVERY

Harry Heymann, 5 Union Street, Bradford.**DISINFECTANTS**

OF ALL KINDS

Cheapest Makers of Co-efficient Acids and Fluids, 1

HENRY ELLISON, LTD., CLECKHEATON, YORKS**MIRRORS. MANICURES.
HAIR BRUSHES.**

WRITE FOR PARTICULARS TO

THE GALEN MANUFG. CO., LTD.

Wilson Street, New Cross, London, S.E.

TEETHHighest Quality Porcelain Tough, Enduring Pins.
Sample set of 28 Diatorics 2/6. Set of 6 Pin Teeth 1/6**EASTERN DENTAL MFG. CO. LD., East Molesey, Surrey**

British-made

ANILINE DYES

FOR FOOD STUFFS, ETC.

Lowest Prices for Egg Yellow, etc.

J. & T. HOYLE & CO.,

312 Deansgate, Manchester.



SHADEINE
FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Hquises.

TRIAL BOTTLES 6d. size, supplied on pretty showcards.
4/6 doz.; 1/- size, 10/- doz.; 3/6 size 30/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.



Radium Bath Salt.

A week's Radium Treatment for Rheumatism, Neuritis, Insomnia, &c.

In your own Bathroom, for 5/9

Descriptive Booklet and information as to further Radium preparations from

RADIUM SALT COMPANY, Ltd.
Telephone—2753 Holborn 21 Farringdon Ave., LONDON, E.C.

33 1/3% to the Trade.

GOOD LINES FOR CHEMISTS.

HONEYS in 1/2 lbs., 1/2 lbs., and 1 lbs.
LEMON CURD (made with pure butter), in 12 oz., 6 oz., and 3 oz.
BE' SWAX, 48, 32, 16, 8, and 2 to the lb. (avoirdupois).

A. GORDON ROWE, 28a Moy Rd., CARDIFF.
Price Lists on Application.

SURGICAL RUBBER & VULCANITE Goods of every description.

Douche Fittings, Douche Tubing, Syringes, Teats, &c.

HIGGIN, Ltd.
265 DEANS GATE, Manchester.

SHAVING STICKS

6d. "THE FLAG," Cartoned, 3/- doz., 33/- gross.
6d. "CREAM OF ROSES," Decorated Tin in four colours, Rose design on Cream ground, 4/- doz., 45/- gross.
1/- ALUMINIUM HOLDER, 7/6 doz. and bonus 2.

Sample of each for stamps 1/3.

C. A. STOKES & CO. Ltd., 31/35 Lower Castle Street, BRISTOL.

BAKING POWDERS.

Particulars of how cheapened, and how quality maintained, on application to

WALFORD & CO. LTD., Collyhurst, MANCHESTER.

Specialists also in Dry Flavours for Custard Powders, etc., and Pure Colours for Food-stuffs.

BRILLIANT PLATE.

"ALBATUM OR WHITE ROUGE"

GIVES A UNIQUE POLISH TO ALL SILVER AND ELECTROPLATED GOODS.

In 6d. and 1/- Boxes, and Tins, 2/-

BRADLEY AND BOURDAS.
6 PONT STREET, S.W.

ZEPTO interferes with none of your Dental preparations. The pencil is used in conjunction with your own dentifrice. In addition therefore to being a smartly packed and profitable advertised line, it helps your own proprietaries. Send for special offer.

Advertised 9d. P.A.T.A. 7 1/2d. 4/6 dozen.

CHRISTYS, OLD SWAN LANE, E.C.

HOT WATER BOTTLES.

BRITISH MAKE. THE "EMPIRE" BRAND

Made in Two Weights, but One Quality only—the Best.

GUARANTEED FOR 2 YEARS.



FIG. 957.—Side Handle.

Top, or side handle	Sizes	6×8		6×10		6×12		8×10		8×12		8×14		10×12		10×14	
		s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
Heavy weight	... .. each	3	2	3	5	3	8	3	11	4	3	4	10	5	2	5	9
Light " "	... .. "	3	0	3	3	3	6	3	9	4	0	4	6	4	9	5	3
Covers , scarlet or grey plush	..	0	9	0	9	0	11	0	11	1	1	1	3	1	5	1	7

N.B.—The metal collar in both heavy and light Bottles is **vulcanised into the rubber neck**, thus making it practically one solid piece and doing away with all possibility of leakage.

5% discount allowed for prompt cash off above prices. Carriage paid on Orders of £2 and upwards to any town in the United Kingdom.

We are the right House for British-made Goods, Anti-Rheumatic Rings, Catheters, Enemas, Elastic Hosiery, Hot Water Bottles, Injection Syringes, Pessaries (Quinine, &c.), Sponge Bags, Trusses, Water Beds, Water and Air Cushions, Waterproof Sheetting, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE.

OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.,
91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

The Fly Season's in Full Swing

THE BEST ANTI-FLY CREAM IS

Flysol

In tubes, carded, retail at 4½d.; & in cartons


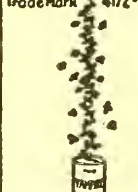

ORDER FROM YOUR WHOLESALER TO-DAY

4½d. size carded in half-dozens - 36/- gross

Large size in cartons (no price) - 72/- gross

LYSOL, LTD., WARTON ROAD, STRATFORD, E.

REAL FLYCATCHERS!

<p>THE "FLYSAC"</p> <p>Reg. Trade Mark Pat. No. 20631-1908</p> 	<p>THE "VAMPIRE"</p> <p>Reg. Trade Mark Pat. No. 4172-1899</p> 	<p>THE "VIPER"</p> <p>Reg. Trade Mark Pat. No. 566-1909</p> 
---	---	--

Prompt Deliveries! Big Profits!
Quick Returns!

NO EXPERIMENT, BUT A PROVED SUCCESS.

WELL MADE AND WELL ADVERTISED.

Send for Samples. They bear out our claims.

SOLE MAKERS AND PATENTEES:

KAY BROTHERS, Ltd., Stockport.

Nat. Tel. 247. Telegrams: "KAY STOCKPORT." (1)
(30 years' experience in the manufacture of Birdlimes and Flygums.)

CAUGHT ALL BUT ONE & I'LL HAVE HIM SOON.

FROM MILLER'S

THE DOOMO AIRSHIP FLY BAND

1d. each

GUMMED ON BOTH SIDES

DOOMO AIRSHIP

A wide band sticky on both sides, unrolling like a blind.

Proprietors of FLYODOOMO—
the old Favourite Fly Paper.

Jno. H. Smith & Co.

NEWARK-ON-TRENT.

HARVEY'S GREAT REMEDIES FOR THE HORSE WITH THE ADDED REMEDIES. (Protected Prices.)

HARVEY'S ACONITE POWDERS.

For Chronic Cough, Broken Wind, Roaring, &c.

HARVEY'S WORM AND CONDITION POWDERS.

HARVEY'S WATTS' EMBROCATION, or Curb Bottle.

HARVEY'S WATTS' RED LOTION.

For Wounds.

HARVEY'S HAIR RESTORING OINTMENT.

HARVEY'S EDOS, or Tasteless Purging Powder.

THE ADDED REMEDIES:

HARVEY'S KOPPOS POWDER,

For Lymphangitis, or Weed, and Inflammations generally. In Tins, 5/- and 10/- each.

HARVEY'S THRUSH SPECIFIC.

In Tins 1/9 and 3/- each.

HARVEY'S HOOF OINTMENT.

In Tins, 3/- and 6/- each.

Also

HARVEY'S HAIR RESTORER (HUMAN).

A successful modification of the Veterinary Preparation. In Pots, 2/- each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.

HARVEY & COMPANY, LTD., DUBLIN.

DANYSZ VIRUS

Is on the P.A.T.A. LIST.



Retail Prices

2/- Per Single Tube

5/- For Three Tubes

LEAVE YOU A
PROFIT of
75% and 50%
RESPECTIVELY.

LIQUID VIRUS
for large applica-
tions at 6/- per
quart bottle, mak-
ing about 5 lb. of
bait.

SHOWCARDS.—
Dummy Boxes, Clockwork
Cats for Window Display,
Circulars, Postcards, &c.,
on application.

Through your Wholesale House, or direct from

DANYSZ VIRUS, LTD.,
(Dept. G A), 52 Leadenhall Street, LONDON, E.C.

The Best of all Fly Catchers

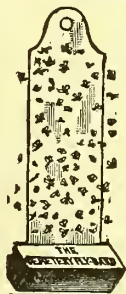


TUNBRIDGE & WRIGHT'S Fly Cemetery

The original and best
of all Sticky Fly
Papers, 6/- per gross
net, carriage paid.
Cash with order.



TUNBRIDGE & WRIGHT'S Cemetery Fly Tape



Very neat, simple, and effica-
cious, 7/6 per gross net, car-
riage paid. Two gross lots
and up 7/- per gross, carriage
paid. Cash with order.

TUNBRIDGE & WRIGHT'S Cemetery Fly Band

The neatest, simplest, and cleanest of all band
catchers. Packed in boxes containing three
dozen. 8/- per gross net, carriage paid.
Cash with order.

TUNBRIDGE & WRIGHT READING

London Depot—46 FARRINGTON STREET, E.C.
N. of England—4 Gallowgate, NEWCASTLE-ON-TYNE.
Telegrams: "FLIES READING." Telephone: 496 Reading.



CHRISTY STRONG'S

"COBWEB" & "GRIP" FLY PAPERS

Per Gross 6/- Carriage Paid.

The "Strong" Fly String 8/- Per Gross.

Postal Address:

**115 CHATHAM STREET,
READING.**

Telegraphic Address: "STRONG READING."

May, Roberts' Traveller.

4023 CITY.

AUGUST 26, 1916.

LONDON & DUBLIN.

THE TRENCH PEST.

The task of combating the plague of body parasites necessarily engendered by the conditions of Trench Warfare has engaged the attention of chemists throughout Europe.

THE "TRENCHMAN" BELT

is the latest and most efficacious means which has been found of dealing with the problem, as it possesses all the strong points and none of the drawbacks associated with earlier attempts.

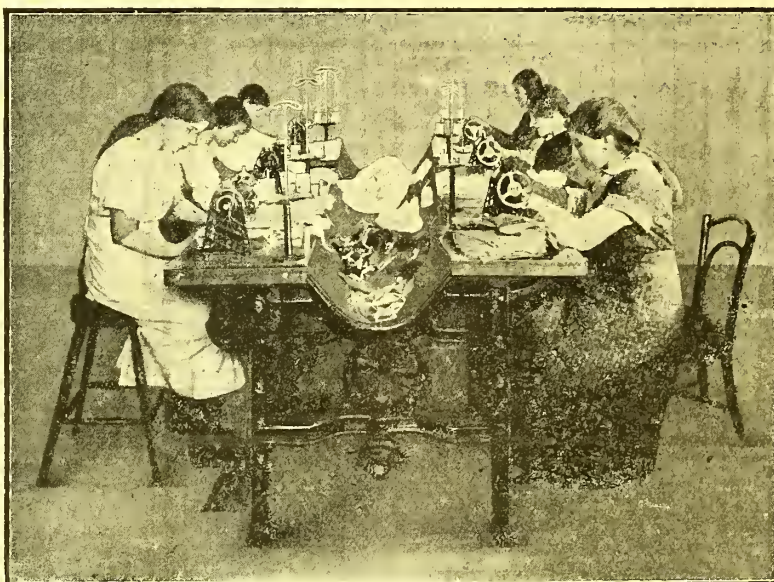
It is absolutely dry, and, not being sticky, does not soil or stain the body or clothing.

In contact with the heat and moisture of the body a gas is evolved which is not only fatal to all forms of body vermin already established, but also prevents others finding a lodgment.

It is immediately adjusted, and being only $2\frac{1}{2}$ inches wide and weighing only 2 oz., the wearer is not inconvenienced in any way.

If you do not already stock the "Trenchman" Belt, now is the time to send your order, the summer being the season when the belts are most needed.

"TRENCHMAN" ANTI-VERMIN BELTS in the Making.



THE FINISHED ARTICLE.



7/- per dozen. 5% discount.

MAY, ROBERTS & CO., Ltd. 7/13 Clerkenwell Rd.,
LONDON, E.C.

And at 16 WESTMORELAND STREET, DUBLIN.



THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, AUGUST 26, 1916.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done—

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

← This is what advertisers in The Chemist and Druggist Supplement secure. Not indefinite returns from spasmodic and inflated circulation, but regular, steady success—the best possible in the Drug Trade. It gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of **SALE, PURCHASE, and VALUATION.**

1.—LONDON, N. (Middle-class Suburb).—Brisk ready-money Business; situate in shopping thoroughfare; returns about £1,100; *net profit* £450; price about £600.

2.—WEST END.—Attractive shop, capitally situated; returns, present rate, £12 weekly; scope for considerable development under good management; lock-up Pharmacy; long lease; price £500.

3.—KENT (Suburban).—Family Retail and Dispensing Business; no Panel; established many years; returns show a steady increase, last year's turnover being about £1,000; *net profit* £300; attractive shop, double-fronted; rent £45; comfortable residence, with garden; price about £650.

4.—LONDON, N.W. (Death Vacancy).—Good-class Business; no immediate opposition; returns £1,000 yearly; *net profit* £300; modern, well-fitted shop; price £750.

5.—SUSSEX (in the heart of the Country).—Retail and Dispensing; all good-class business; returns £825; *net profit* over £300 (proof given); full investigation permitted; price £650.

6.—WEST MIDDLESEX (Main Line of Rail).—For Disposal, through death of Manager, Cash Retail Business; returns £600; *net profit* one-third; rent £36; 7-roomed house and garden; no reasonable offer refused.

7.—KENT (Market Town).—Branch Business, much neglected; returns between £400 and £500; large shop and premises; vendor's own property; price £200.

8.—HANTS.—Unopposed Business, very old-established; returns about £850; *net profit exceeds* £250; exceptionally good residence, with garden and outbuildings; price £400; this is much below market value.

9.—BRISTOL CHANNEL (Large Town).—Retail and Dispensing, together with Wines; returns £1,500; excellent premises, situate in main thoroughfare; vendor desires to take up an appointment, and for a quick sale will accept the value of stock and fixtures.

10.—MIDLANDS.—Established Business, Dispensing and Retail; returns upwards of £3,000 per annum; vendor would consider a Partnership with a view to the incomer taking up the whole within a given period.

11.—HOME COUNTY (Within Easy Distance of London).—Dispensing and Retail; all good middle-class business; returns £1,000; *net profit* between £250 and £300; good position in close proximity to railway station; price about £700.

12.—WILTS.—Retail and Dispensing, with Wines and Spirits; established many years, and held by vendor about 28; returns last year £1,562; good-sized house, with garden attached; terms, goodwill £50, stock and fixtures by valuation.

13.—WESTERN COUNTY (Health Resort).—Neglected Business; returns about £500; excellent opening for a pushing man; terms, valuation of stock and fixtures.

14.—GLOUCESTERSHIRE.—Old-established Business for immediate Disposal through ill-health of vendor; returns between £1,300 and £1,350; *gross profit* £500; substantially fitted and well stocked; good house and garden; no reasonable offer refused.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

PARSON C. BAKER

Pharmaceutical Chemist,
TRADE VALUER AND TRANSFER AGENT.

Recommended by British Drug Houses, Ltd.: Meggeson & Co.; Barclay & Son.
Tel. No.: FINCHLEY 812.

VALUATIONS, ESTIMATIONS, EXAMINATIONS, AND
FULL REPORTS, Town or Country, on moderate terms.

No charge whatever to vendors or purchasers except by agreement.

Personal Attention
to every detail.

40 years' Valuation
experience.

CORRESPONDENCE INVITED.

1 MOUNTFIELD RD., CHURCH END, FINCHLEY, N.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—BANKS OF THAMES (Death Vacancy).—Good-class Chemist's Business, with Optics; returns last year over £1,850; good profits; attractive, well-fitted shop, fine position, and fully stocked; scope for increase; price about £1,000, bare valuation; strongly recommended.

2.—WEST OF ENGLAND.—Old-established good-class Country Retail; returns approach £4,000; net profit about £1,000; splendid position; market town; fine premises; owner retiring; price £2,500; splendid chance for two smart men.

3.—KENT.—Light profitable Retail, returning £700 under Manager; good profits; scope for increase; no opposition; modern-fitted shop; good house; price £300, half can remain.

4.—NORTH WALES COAST.—Unopposed Light Retail; returns last year £575; net profit £200; double-fronted shop, fully stocked; price £200 or valuation.

5.—MIDLANDS (Death Vacancy).—Light Family Retail and Agricultural, in pleasant market town; easy hours; returns £900; net profit £500; good opening for Photo and Optics; one other Chemist; price £425, or first reasonable offer.

6.—LONDON, S.E.—Working Partner required in good middle-class suburban business; returning £1,000, no Panel; fine position; good residence; price for half share £370; incoming Partner's share of profits would exceed £200 a year.

7.—NORTH LONDON.—Good middle-class Retail; pleasantly situated; returns £850; attractive shop; good stock; price £300 or valuation; personally inspected and recommended.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application.

Why you should have stock taken is very clearly defined on page 135 of the *C. & D. Diary* for this year. Have you read it?

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

MIDLANDS.—A good Business for Sale, through ill-health; returns near £600, rent £45; let off £26; good house and garden; splendidly fitted shop, well stocked; commanding position; side entrance; bathroom, w.c. upstairs; sacrifice, £450 or near offer. "Urgent" (161/32), Office of this Paper.

SOUTH WALES.—Thriving Business in industrial town; returns over £1,300, exclusive of £132 N.H.I.; no booking; good shop and house, in splendid position, at low rental; health sole reason for selling. Apply, "Genuine," c/o Mr. John Williams, "Brynawel," The Parade, Whitechurch, Cardiff.

WEST RIDING, Select Suburb.—Light Retail; returns £750, increasing; good profits; N.H.I. untouched; can be nearly doubled under good management; well fitted and stocked; large shop and good house; reasonable rent; under exceptional circumstances will sell for £370 or valuation, part could remain; a chance of a lifetime for anyone wanting a sound good-class business. "Genuine" (160/2), Office of this Paper.

GREAT Sacrifice (West London).—To be Sold at valuation, Cash Retail (established 12 years), same proprietor; returns £12-£15 weekly; N.H.I.; exceptional opportunity elderly Chemist to acquire or younger man to increase; much scope; good house; every investigation; quick disposal essential; present owner joining up. "Nomen" (160/22), Office of this Paper.

OLD-ESTABLISHED Business in N.W. district for Sale; corner shop; good-class neighbourhood; Cash trade opening for a good Company firm; What offers? Apply 161/19, Office of this Paper.

REALLY good live Business, with exceptional scope in growing town; absolutely no opposition; pop. 5,000; good profits; turnover about £800, could be increased; small house and garden; low price for quick sale. Apply, 162/17, Office of this Paper.

TO Chemists and Druggists.—For immediate Disposal, old-established Chemist and Druggist's Business (at present under Management) in Northern district of London, with branches at Palmer's Green and Wimbledon; splendid opportunity for energetic qualified men with small capital. Full particulars of F. Rowland & Co., Chartered Accountants, 70 Queen Victoria Street, E.C.

TO Chemists and Drysalers.—Old-established Business in Heyworth Street, Liverpool; very populous neighbourhood; excellently fitted; General and Dispensing; good opening. Apply, H. D. M'ausland & Co., 8 Victoria Street, Liverpool.

£500 WILL secure exceptionally good increasing Business; excellent prospects; large handsomely-fitted corner shop; main thoroughfare, S.E. district; long lease; low rental; £850 last year turnover; good profits; splendid opening for Optics; sole reason for disposal, proprietor called up. Apply, 159/35, Office of this Paper.

£75 (or Offer).—Old-established Business, with convenient house and garden; price less than value of stock; executors' sale owing to expiration of lease. James, 37 Vestry Road, Camberwell, S.E.

£75 (or Offer).—Old-established Chemist and Druggist's Business for Sale as a going concern; good corner position. Apply, Heane, Solicitor, Wheeler Gate, Nottingham.

£50 (or Offer) for quick Sale.—Small suburban Business; old-established; neglected; suit Drug Store or elderly man; good scope; no near opposition. 161/18, Office of this Paper.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

AGENCIES Wanted.—A firm of General Importers, Indentors, and Manufacturers' Agents have opening for Agencies of all kinds; splendid situation Melbourne business centre; fine naturally lighted showrooms and large windows; reference, Commonwealth Bank of Australia. E. Duncan & Co., Strand Buildings, 152 Elizabeth Street, Melbourne.

AGENCY wanted by Commercial "ineligible"; sound connection West and East of Scotland. Chemists, Ironmongers, Aerated Water Manufacturers, etc.; references to Buyers; only first-class firms need apply. 163/7, Office of this Paper.

PARTNERSHIPS.

MANAGING Partner wanted, married, and of good standing and address, to take charge of high-class Dispensing business in town; capital required £1,250 for half-share (part of which might remain); total income in return approximately £600 per annum. This is a really good opportunity for thoroughly reliable gentleman. Apply to "X." (147/30), Office of this Paper.

QUALIFIED Chemist, middle-aged, wishes to Buy good established Business or Partnership in a good Wholesale or Retail Business, or would Purchase for cash whole or part share in well-established Proprietary or Mail-order business; highest references; cash ready. 161/31, Office of this Paper.

PREMISES TO LET.

TO Wholesale Traders and Others.—To be Let a newly-erected Building of 3 floors and basement, measuring 25 ft. by 70 ft., with heating apparatus and electric light throughout; would be divided to suit tenants at low rents. Apply, D. Swyers, Rutland House, Beer Lane, Gt. Tower Street, E.C.

PREMISES WANTED.

PREMISES wanted suitable for Packing Toilet Goods; small plant could be taken over; one good floor suitable, but must be central and low rent. "New" (53/40), Office of this Paper.

BUSINESSES WANTED.

A SMALL Light Cash Retail Business, returning £9 or £10 a week and upwards; town or country, but not London. Send particulars to 162/36, Office of this Paper.


FOR SALE.

REMINGTON'S latest No. 10 Visible Typewriter; unsoiled; two colours, backspace, Tabulator; all newest fittings; cost £25; sacrifice £13 10s.; also Remington No. 7, equal to new; £6 10s. or near offer; Second-hand; either or both machines sent on trial willingly. White, Arcade, Northampton.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.



RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK AUG. 19, 1916

NATURE OF ADVT.	REPLIES
BUSINESS FOR DISPOSAL	11
DISPENSER	9
ASSIST ^T QUALIFIED	8
LOCUM	8
ASSIST ^T EXPERIENCED	8

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

RETAIL.

ALDERSHOT.—Wanted, Junior Assistant; unqualified; outdoors. Williams & Litchfield, Pharmacists, 140 Victoria Road, Aldershot.

BRIGHTON.—Wanted in September, outdoor Assistant, with good Dispensing experience; ineligible. Apply, with full particulars and salary required, to J. Miller, 4 Victoria Road, Brighton.

BRISTOL.—Junior (ineligible) required for Light Cash Retail in pleasant suburb; good salary for smart Salesman; experienced lady Assistant would be considered. Please state full particulars, with recent photo, to Stokes, Chemist, Bristol.

BROMLEY (Kent).—Junior or Improver (indoors), with knowledge of Homeopathy preferred, though not essential. Apply, stating age, height, references, and salary required, with photo, to R. Skinner, 26 Widmore Road, Bromley, Kent.

CARDIFF.—Wanted immediately, for a fortnight, a Locum; good remuneration to suitable man; also in October, a permanent Assistant; outdoors. J. B. Thomas, Pharmacist, Roath Park, Cardiff.

CHELTENHAM.—Assistant for Dispensing business. Apply, with full particulars, Thomas Bros., Montpellier, Cheltenham.

CREWE.—Qualified Assistant wanted (not Manager), ineligible, permanency, for a good Mixed Country business; short hours; half-day Wednesday; outdoors; no Sunday duty. State age, reference, and salary required, "Exors." of E. Booth.

HUDDERSFIELD.—Assistant wanted (male or female), for high-class business; liberal salary; outdoors. Cuthbert, Ltd., Huddersfield.

ILKESTON.—A qualified temporary Manager required immediately, to take charge during owner's absence; four weeks guaranteed, probably more extended period; liberal salary to competent, well-recommended man; others kept; light hours, half-day weekly; no Sunday duty; industrial centre; N.H.I., general Retail. Write full particulars, with references, Fletcher, Pharmacist, Ilkeston, Derbys.

LANCASHIRE.—Qualified Manager required for suburban business near large industrial centre; business has been well managed, and now presents an excellent opportunity for North Country man anxious to settle down; must be married, of good character, and possess energy and ability; liberal interest in the profits given. "A. R." (159/320), Office of this Paper.

LEOMINSTER.—Wanted, reliable Assistant (lady or gentleman), for good-class country trade; outdoors. Apply, with full particulars, to Ellwood & Son, Chemists, Leominster.

LIVERPOOL.—Wanted, qualified Manager, ineligible, or lady capable of taking complete control, for Branch in industrial Lancashire town; N.H.I. and general Retail. Apply, Welch, Pharmacist, Freshfield, near Liverpool.

LONDON.—I am requiring a qualified Manager to take sole charge of Light Retail Store business; good Counterman; reliable and trustworthy; 41-45; married; outdoors; Assistant (part-time) Kent. Please state reference and salary required to 54/60, Office of this Paper.

LONDON (Central).—Qualified Manager (male) wanted for small Branch; hours 9.30 to 8; no Sunday duty. State salary required and full particulars. Apply, 163/12, Office of this Paper.

LONDON, N.—Locum from September 4 to 16, or mornings 10 to 2 would suit. State usual particulars, "Nemo" (163/14), Office of this Paper.

LONDON, S.W.—Wanted, a smart Dispenser. Apply, with full particulars, to Amore & Co., 173 Sloane Street, S.W.

LONDON, W.—Capable Assistant wanted; qualified; good salary for suitable man; outdoors. Apply, stating usual particulars, to John Atkins, Chemist, 109 Queen's Road, Bayswater, W.

LONDON, W.—Lady Assistant, with some country experience; outdoors; hours 8.30 to 8, Saturdays 8.30 to 9.30; one with knowledge of Bookkeeping preferred. Bruce's, Ltd., 28 The Broadway, Ealing, W.

MANCHESTER.—Qualified Chemist at once, to take charge of N.H.I. Dispensing. Send particulars to "Brushes," c/o Quilliams, Canterbury Works, Victoria Bridge, Manchester.

MANCHESTER.—Qualified man for Branch; permanency to a good Salesman. Please send full particulars to "Chemist," c/o Quilliam & Co., Victoria Bridge, Manchester.

MANCHESTER CHILDREN'S HOSPITAL, PENDLEBURY (Out-Patients Department), Gartside Street, Manchester.—Qualified Assistant Dispenser required for the duration of the war; applications, with copies of testimonials, to be sent to the undersigned at once, stating qualifications, salary required, and date can commence duty. W. M. HUMPHRY, Secretary.

MIDDLESBROUGH.—Lady Dispenser for Doctor; must be able to keep Panel Register. Apply, stating salary required and references, to Middleton & Co., Chemists, Middlesbrough.

NEWPORT, MON.—Wanted, unqualified Junior, active and reliable, accustomed to Photographic trade and Insurance Dispensing, for Mixed business in South Wales. State salary required (outdoors), age, height, references, and send photo. Smith, 5 High Street, Newport, Mon.

NORWICH.—Unqualified outdoor Assistant, not over 35, required for Shop Counter and making Preparations; experience and good references essential; hours easy; duties light. Terms, reason for exemption and full particulars, to Nuthall & Mason, Norwich.

PROVINCES.—Major man required for Testing and Experimental work; free removal. Please state age, experience, and salary desired, "M. M." (161/9), Office of this Paper.

SOUTH COAST.—Wanted at once, capable unqualified Assistant, not over 50 years of age, for brisk, Light Retail business; no Panel work; preference given to good Window-dresser with knowledge of Photography; for an Assistant seeking a permanency this is a really comfortable situation where every consideration will be shown him; salary 45s.; outdoors; moderate hours. "Sutherland" (160/9), Office of this Paper.

SOUTH OF ENGLAND.—Assistant required; experienced; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SURREY.—Wanted, unqualified man to Manage a Drug Store; must be ineligible and of good character. Usual particulars and salary required, etc., in first letter, to 157/13, Office of this Paper.

WOKING, Surrey.—Locum wanted immediately for two weeks; outdoors. Apply, with full particulars, to Price, Chemist, Woking, Surrey.

WOLVERHAMPTON.—Locum Tenens, qualified, wanted for two or three weeks; outdoors; hours 8.30 a.m. to 8 p.m., Saturdays 8.30 a.m. to 9 p.m., Thursday 8.30 a.m. to 1 p.m. State age, experience, references, and salary, Reade Brothers & Co., Ltd., Wolverhampton.

YORK.—Managing Assistant required for highest-class Pharmacy; one who is willing to also Manage first-class Ladies' and Gentlemen's Hairdressing Saloons, and occupy position of trust. Write fully, E. B. Kendall & Son, 6 Coney Street, York.

YORKSHIRE (W.R.).—Unqualified Assistant for Light Retail business in pleasant locality; short hours; no Sunday duty; applicants must be over military age and able to take charge in absence of principal. State salary required and full particulars to 161/11, Office of this Paper.

A FULLY-QUALIFIED Chemist is required immediately in a Midland Pharmacy; good salary given; married man preferred. Particulars, etc., apply, "A.B.C." (161/36), Office of this Paper.

A LADY Assistant wanted with some knowledge of Dispensing. Apply, Shields & Warren, St. Albans.

A QUALIFIED Locum for a fortnight, for Light Retail and Dispensing business. R. B. Betty, 1 Park Street, Gloucester Gate, London.

ASSISTANT (ineligible) wanted for Mixed Country branch, or lady Assistant would suit; comfortable berth; outdoors. Apply, stating salary, etc., to Barker, Chemist, The Cross, Buckley, via Chester.

BRANCH Managing Assistant; London suburb; unqualified; permanency; must be good Counterman with business methods; plenty of scope for man with ideas and brains. In first reply state age, last few years' experience, and salary, to Mr. Johnson (162/13), Office of this Paper.

COMFORTABLE berth for Assistant in good-class Country business; short hours; no Sunday duty; outdoors. Please send particulars as to age, salary, etc., and photo if possible, to W. Lincoln, Chemist, Ely.

DISPENSER (female), temporary, wanted at Joyce Green Convalescent Fever Hospital, Dartford, Kent (under Metropolitan Asylums Board); must be a Licentiate of the Society of Apothecaries or registered under the Pharmacy Acts (Major or Minor certificates of the Pharmaceutical Society); those holding only the Assistant's certificate of the Society of Apothecaries are not eligible; salary £3 5s. per week, with dinner and tea daily when on duty. Apply to the Medical Superintendent.

DISPENSER required by September 1 in suburban private Practice; full daily employment, with light Sunday work; similar or Chemist's experience necessary. Address 163/3, Office of this Paper.

EXPERIENCED Assistant, lady or gentleman, for first-class Dispensing business; must be well up in Dispensing; two Assistants kept; to live on premises with housekeeper, or if married good house provided. Applicants please state age, qualifications (if any), and full particulars, H. B. Sharman, Pharmacist, Northwood.

HOSPITAL FOR CONSUMPTION, BROMPTON, S.W.—Dispenser (male) wanted for temporary duty, September 4 to 30; Minor qualification essential; salary offered £3 3s. weekly, with lunch provided. Applications, stating age, experience, Hospital or otherwise, accompanied by two recent testimonials, to be addressed to the Secretary.

IMMEDIATELY.—A competent, trustworthy Assistant needed for good Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace, W., opposite West Kensington Station.

IMMEDIATE.—Assistant, unregistered, outdoors, for Light Retail and Dispensing; hours 8.30 to 8.30, with two hours alternate Sunday evenings. State salary required and usual particulars to W. Luty Wells, Wiewsley, Middlesex.

INELIGIBLE or Discharged Soldier.—Resident Assistant wanted for a Light Retail and Photographic business, with N.H.I. Dispensing, in small manufacturing town; there is a good house and garden next the shop; owner will give salary and commission on improvement of present turnover. Charles Hardy, Leiston, Suffolk.

JUNIOR Assistant with good Dispensing experience required shortly; ineligible or discharged Army man. State particulars and salary to 160/26, Office of this Paper.

LADY Clerk wanted in the Office of the South West Lancashire and Wirral Joint (Prescriptions) Committee; one holding Apothecaries' Hall certificate or able to read Prescriptions preferred. Applications, stating salary required, should be addressed to W. Gill Hodgson, 55 Dale Street, Liverpool.

LADY Assistant; provinces; good opening; progressive salary; must have had good Dispensing and some Counter experience; permanency. "L/a." (159/32), Office of this Paper.

LADY required (Minor qualification) for Limited Company, as Superintendent Dispenser, N.H.I. etc.; reliable and competent; permanent and comfortable berth for right person; North Staff.; kindly give full particulars, references, salary required; reply treated confidentially. Apply, 161/7, Office of this Paper.

MANAGER, qualified, for Branch West End; good Window-dresser and Salesman, for high-class trade; smart appearance and address. State when disengaged, with fullest particulars as to experience, salary, etc., which will be treated in confidence, to J. Simpson, 155 Queen's Road, Brighton.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects.

QUALIFIED Manager required for an old-established Family Retail and Dispensing business; business is in a very progressive condition, and offers splendid scope to a man of about 46 years of age anxious to take his coat off and do really well; every encouragement given. 159/321, Office of this Paper.

QUALIFIED Manager required for modern business; must be good Counterman and Dispenser; every inducement offered to a first-class man; vacancy in the provinces. 159/322, Office of this Paper.

REQUIRED, Counter Assistant used to Druggists' Sundries; must have smart appearance; hours of work 8.45 to 6 o'clock, Saturdays 1 o'clock; no Sunday duty. Write, stating full particulars and past experience, to "L. J. 682," Sells' Advertising Offices, Fleet Street, E.C.

REQUIRED, Dispenser, Minor qualification; hours of work approximately 8.45 to 6 o'clock, Saturdays 1 o'clock; no Sunday duty. Write, stating full particulars of past experience, to "L. J. 681," Sells' Advertising Offices, Fleet Street, E.C.

SENIOR.—A capable, unqualified man for Light Retail and Photographic trade in moderate-sized town, N. Midlands; permanency. Apply, stating salary and full particulars, to "Photog." (161/13), Office of this Paper.

UNQUALIFIED Assistant required for a progressive business in the provinces; permanency, with good prospects; must bear a good character and be a competent Counterman and Dispenser. "U." (159/323), Office of this Paper.

UNQUALIFIED Assistant required for good-class Retail and Dispensing business; outdoors; good salary and reasonable hours. Apply, Mr. Parkhouse, 91 High Street, Beckenham.

UNQUALIFIED Assistant wanted immediately; ineligible for Army; state age, references, and salary in first letter. Apply, 162/35, Office of this Paper.

WANTED at once, a Stockkeeper, and one capable of making and packing Proprietary articles. Apply to John Atkins, Chemist, 109 Queen's Road, Bayswater.

WANTED, unqualified Junior or young lady for Counter trade and Insurance Dispensing; middle-class Mixed business. State age, experience, references, and salary required (outdoors), J. W. Heath, Chemist, Hocknall Torkard.

WANTED, elderly qualified Assistant; hours from 11 till 8 p.m. (two hours allowed for meals), Thursdays 11 to 1 p.m. only; salary £2 10s. per week and commission; also Junior or young lady Assistant for Counter. Apply, with full particulars, The Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, S.E.

WANTED, qualified lady Dispenser and Bookkeeper for Doctor's Practice in an industrial town, in the county of Durham; previous experience preferable. Reply, giving full particulars as to experience, salary required, and references, etc., to 160/35, Office of this Paper.

WANTED at once, part-time, fully qualified lady or elderly Chemist seeking a few hours' light work daily; any part of day would suit. Apply, "H.," 269 West End Lane, N.W.

WANTED, an Assistant who has had good experience in Dispensing; outdoors; salary £2 15s. per week. Apply, giving full particulars, to D. P. Roberts, Chemist, 120 North End, Croydon.

WANTED, Locum for about fortnight, early in September; outdoors. State references (recent), age, terms, and all particulars in first letter, Neale, Mortimer Street, Herne Bay.

WANTED as soon as possible, qualified man to Manage Country business in Yorkshire; applicants must be free from military service; excellent references absolutely essential. Apply, 161/17, Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

CAPABLE Chemist required with experience in Manufacture of Pharmaceutical and Toilet Preparations and Perfumery; must be good Manager and supervisor; ineligible; permanency to suitable man. Address, stating age, salary, and experience, to 152/16, Office of this Paper.

CHEMIST wanted by old-established Company manufacturing Patent Medicines, etc., on a large scale; expert knowledge and actual experience of Tablet Making absolutely essential; the appointment would be progressive and a permanency. Write stating age, experience, and salary desired, to Box No. 708, c/o Mitchell & Co., Ltd., 1 Snow Hill, E.C.

COUNTRY Representative to call on Hairdressers, Cutlers, etc., take over old-established connection; one not eligible for military service. Apply, in first instance, stating fully past experience and salary expected, to "A. R. D." (50/60), Office of this Paper.

OLDFIELD, PATTINSON & CO., New Bridge Street, Manchester, require three Drug and Invoice Clerks, two Assistants for Wet Counter, one Assistant for Dry Counter, two for Receiving Returns, and one to take charge of the Bottle Stock Room; must be ineligible for military service. Apply, with full particulars in first letter.

PACKER (male or female) wanted by Wholesale firm. State experience and wages, 163/6, Office of this Paper.

REPRESENTATIVE wanted, Wholesale, London district, Glass and Sundries, for old-established firm; good connection. Apply, "Manufacturers" (53/26), Office of this Paper.

REPRESENTATIVE wanted to call on Wholesale Druggists' Sundriesmen, etc., in England and Scotland, with a comprehensive Line of American Surgical and other Rubber Goods; gentleman already calling on this trade, and able to take on another Line preferred; commission and part expenses. Full particulars to 163/15, Office of this Paper.

TABLET, Pill, and Capsule Department.—Capable man wanted to take complete control of same, with a view of development; would have nothing to do with the Manufacture, which is quite separate. State age, experience, and salary required, 52/38, Office of this Paper.

THE Wankwell Boreac Sock Co. require Travellers calling upon Chemists, for Line on a commission basis; live men will find this an excellent selling Line. State territory covered, also send reference, to 269 West End Lane, West Hampstead, N.W.

TOWN Traveller required for old-established Drug House; good position for first-class experienced man; no other application could be entertained; must be ineligible. Write, with full particulars, to "X.Y.Z." (53/27), Office of this Paper.

TRUSS and Belt Fitter (lady) wanted for leading London house; must be experienced; good wages. Apply "S. J. C." (54/55), Office of this Paper.

WANTED, man calling on first-class Wholesale Houses and Stores in the provinces, to take up a well-established Side Line. 50/38, Office of this Paper.

WANTED, youth with some Chemical training for Laboratory of Manufacturing Chemists; good opportunity for suitable Junior. Apply, with full particulars, to "C.," Messrs. E. T. Pearson & Co., Ltd., Loudon Road, Mitcham.

WANTED, Traveller, with thorough connection amongst Chemists, Wholesale and Retail, and an experience in interviewing medical men, by a firm of Food Specialists. Apply, stating territory worked, salary expected, with full particulars, to Box 124, Smiths' Advt. Agency, Ltd., 100 Fleet Street, E.C.

WORKING Foreman for Manufacture of Toilet Goods; methodical man, not afraid of grease and dust, who can organise; suit intelligent Wet or Dry Counterman. Particulars of experience, wages required, to 55/3, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; **6s.** for every 10 words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

CALCUTTA.—Qualified Assistant, free from military service, for large European House; 4 years' agreement; salary 275 rupees a month, second year 300 rupees per month, third year 325 rupees per month, fourth year 350 rupees per month; second-class passage paid out and home; good opportunity for a smart man. Apply "G. K." Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

NAIROBI, British East Africa.—Qualified Assistant required: exempt from military service; young man who has passed his Minor about three years; agreement for three years; salary £20, £25, and £30 per month respectively; passage paid out and home. Apply "G. K." Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

SHANGHAI.—Qualified Assistant required in old-established high-class English House; ineligible for military service; English-speaking Belgian would be considered; liberal terms and conditions. Full particulars to "Shanghai" c/o Street's, Cornhill, E.C.

SITUATIONS WANTED.

rs. for 12 words or less; **6d.** for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

A LOCUM, qualified, exempt from military service (38), excellent references, seaside or country preferred, has a few open dates. State full particulars to Withnall, c/o Messrs. Milling & Johnson, Chemists, Chester.

A POTHECARIES' Student (passed Theory) requires part-time Dispensing; lives S.E. district. Address till 1st, "H.", 43 Wellington Square, Oxford.

A S Supervisor or other light work, retired qualified Chemist; permanency. 160/11, Office of this Paper.

A SSISTANT; unqualified; disengaged shortly; Dispensing Counter; Midlands preferred; over military age. "Phenol" (160/7), Office of this Paper.

A SSISTANT; unqualified; age 33; ineligible; disengaged; 17 years' all-round experience; London preferred. "Ability," 332 Cavendish Road, Balham, S.W.

A SSISTANT or Locum; disengaged September 2. Senior, 4 Mount Pleasant Cottages, Bourne End, Maidenhead.

A SSISTANT, unqualified, age 39, ineligible, seeks engagement; disengaged; all-round experience; West of England preferred. "Rhei" (160/31), Office of this Paper.

A SSISTANT or Branch; 51; disengaged; experienced; abstainer; reliable. Terms to "J. S.," 4 Queen Street, Redcar.

A SSISTANT; 23; single; rejected; Counter, Dispensing, Windows; London or district preferred. "Rytol" (161/34), Office of this Paper.

A T liberty; gentlemanly; 29; Retail, Wholesale, and General business experience; excellent references; permanency desired; salary £3; Midlands, Birmingham preferred, either Retail or Commercial Wholesale; confidential. Leonards, c/o Derry, Bridge Street, Walsall.

D ISPENSER, 10 years' experience, highest references, exempt, would like to hear from somebody requiring a thoroughly reliable Dispenser; disengaged shortly. "Nemo," 97 Southwark Park Road, London, S.E.

D ISPENSER, lady, qualified, desires post in London; outdoors; good references. Write "Field" (159/37), Office of this Paper.

D ISPENSER or Secretary-Dispenser (woman); Hall qualification; competent Shorthand Typist; in or near London preferred; free end of September and part-time during September; good references. 159/15, Office of this Paper.

D ISPENSER (ineligible) desires post with Doctor; several years' experience; first-class references; North or Midlands preferred. 158/34, Office of this Paper.

D ISPENSER for first two weeks in September; 23; "Square" trained. Please state salary, etc., "M.P.S.," 29 Hamilton Road, Salisbury.

D ISPENSER, some Retail experience, seeks post near London; Hall certificate. 161/21, Office of this Paper.

D ISPENSER (Doctor's preferred), ineligible, desires post immediately. "B.," 99 Shrewsbury Road, Forest Gate, E.

E VENING Employment wanted by Student in London; 5 years' West-End Dispensing experience. 158/9, Office of this Paper.

E VENINGS and occasional Sunday; qualified; Dispensing and Counter. "Senior," 49 Wandsworth Bridge Road, Fulham, S.W.

E XPERIENCED Pharmacist having a few hours daily at his disposal seeks engagement with Wholesale or Retail in London; for Wholesale, capable organiser with exceptional ability in the development of profitable Side Lines; for Retail, expert Dispenser and Window-dresser; references undoubted. Write "Pharmaco" (158/33), Office of this Paper.

E XPERIENCED Assistant, over 30 years' London and Provincial experience, requires situation as Manager or otherwise; accustomed to the usual routine of a Chemist's business, including Photography; ineligible; ten years present situation. Particulars "Statim," 4 Churchill Avenue, Birkenhead.

J UNIOR Assistant, experienced, desires situation; London preferred. "Bonum," 3 Northampton Road, E.C.

L ADY Dispenser (23), Hall qualification, desires post with Chemist, Doctor or Institution; some experience; in or near Brighton. 160/23, Office of this Paper.

L ADY (23), unqualified, Pharmacy training, experienced, as Dispenser to Doctor; indoors; South England essential; disengaged. 158/35, Office of this Paper.

L ADY Dispenser, experienced, desires part-time post, neighbourhood of Manchester. 161/1, Office of this Paper.

L ADY Dispenser seeks afternoon employment locally. "M. C.," 8 Kingsley Road, Forest Gate, E.

L ADY Dispenser, qualified, desires post with Doctor; town or country; would do Locum; experienced. 161/22, Office of this Paper.

L OCUM (30); ineligible; experienced; good references. 12 Bertram Road, Wrexham.

L OCUM (September).—Lady Dispenser; 31; unqualified; experienced; good references; Doctor or Hospital. 159/1, Office of this Paper.

L OCUM, qualified, exempted (32), excellent references, or as Representative for good Wholesale House. State fullest particulars to "MacMullan" (159/34), Office of this Paper.

L OCUM; qualified; London or near seaside; London and country experience. Herrod, Wisbech.

L OCUM, qualified, Photography, Optics, Dentistry, Operating and Mechanics (46), or as Representative for good Wholesale House. Apply, 162/11, Office of this Paper.

L OONDON.—Immediate; educated, experienced Assistant; 45; proved Managerial ability; non-registered. 161/26, Office of this Paper.

M.P.S., MANAGER or Locum; excellent references; disengaged. 159/14, Office of this Paper.

M.P.S., INELIGIBLE, good experience, desires post as Dispenser or Manager. Glanyrafon, Bangor.

M.P.S., INELIGIBLE, seeks comfortable berth as Manager; North preferred; good experience, Counter, Dispensing; possible view purchase. Pharmacist, 5 St. Alban's Square, Bootle.

MANAGER; thoroughly experienced; good Prescriber; view to purchase; moderate hours; North Midlands. 161/8, Office of this Paper.

MANAGER or Assistant; 45; experienced Dispenser, Salesman, and Prescriber; single; disengaged; unqualified. "Statim," 578 Smith Riding, Linthwaite, Huddersfield.

PART-TIME, evenings, Russian Pharmacist; experience of English and Continental Dispensing. "Russian," 157 King's Road, N.W.

PART-TIME; Stock; 30; experienced; recommended; Tuesday after 3. Alexander, 204 Ebury Street, S.W.

PART-TIME four afternoons weekly; easy distance Tooting; experienced; unqualified. Offers to 163/17, Office of this Paper.

PHARMACIST'S daughter seeks post, Improver, high-class Pharmacy, Liverpool or near. "Alpha," Messrs. Evans Sons & Co., Hanover Street, Liverpool.

PORSMOUTH District.—Dispensing, Manufacture, etc.; temporary, permanent; London experience, City, West-End Hospital, Stores; ex Military Hospital Dispenser; disengaged. "R. A. M. C.," 3 Dean Street, St. George's Square.

QUALIFIED Manager; permanency preferred; thoroughly experienced. Davies, Ty. Cwrdd, Llwynhendy, Llanelly.

QUALIFIED, married, experienced, best references, seeks Managership or good berth with Company or private firm. Hughes, 131 Lancaster Road, Morecambe.

QUALIFIED Manager; married, family; used to suburban Dispensing, Prescribing, and Light Retail; only Little Photo experience. Apply, with full particulars, salary, etc., to Pharmacist, 9 Lister Road, Fairfield, Liverpool.

QUALIFIED, as Manager; active, good Salesman; not afraid of work; excellent references; present post 10 years. State salary and particulars; ineligible. 161/12, Office of this Paper.

QUALIFIED; elderly; single; reasonable hours; moderate salary; outdoors; London. 161/28, Office of this Paper.

QUALIFIED; ineligible for military service; good varied experience, also good Prescriber, Dispenser, and Extractor; active. State terms, hours, etc., when required, Manager or otherwise, 163/2, Office of this Paper.

REGISTERED, small Branch; over military age; Prescriber. Address 309 Park Lane, Little Horton, Bradford.

UNQUALIFIED (29), ineligible, married, no family, Dispensing Counter, etc., thoroughly competent, seeks permanency in good Country town or Seaside Country town; at liberty end of September. Particulars and salary offered to "Abstainer" (160/12), Office of this Paper.

UNQUALIFIED; age 36; Manager or Assistant; London only; unfit for Army. "Statim" (160/37), Office of this Paper.

UNQUALIFIED (42), seeks berth in City with good-class firm; good references; disengaged end of September. "L.M.N." (163/16), Office of this Paper.

YOUNG lady, having passed Hall Examination, wishes to get further experience in Dispensing either in Hospital or high-class Pharmacy; town with facilities for study in practical Chemistry preferred. Particulars to Randle, c/o W. Deacon, Pharmacist, Bridgwater.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ACTIVE Handyman for making Stock, Packing, Photography; could Manage small Wholesale; London or near preferred; excellent references. "Foreman," 14 Sussex Gardens, Paddington.

TRAVELLER or Agent, ineligible, twenty years' connection, Midlands, etc., wishes to Represent good Perfumery or Soap House on equitable terms. "Birmingham" (160/25), Office of this Paper.

TRAVELLER, ineligible, experienced, Retail, Wholesale, and Road, desires permanency, Drugs, Sundries or Proprietaries. 161/20, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green. Shares for Sale (free of commission, subject).—65 St. Ivel 6 per cent. Preference, 17s. 6d.; 400 Oil Trust, 9d.; 50 Salt Union 44 Ordinary, 50s.; 200 Schweppes Deferred, 9s. 4½d.; 200 United Indigo Ordinary, 6s. 9d.; 150 Preference, 19s. 9d. Shares Wanted (subject).—Camwal Ordinary and Preference, Parke's Drug Ordinary and Preference, and A. J. White. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOWCASES and **SHOPFITTINGS**.—6-ft. Bent Counter Case, 75s.; 11-ft. Glass-fronted Serving Counter, £8 5s.; Plate-glass Sponge Case, 77s. 6d.; Perfume Case and Desk, 42s. 6d.; 6-ft. Wall Case, £8 17s. 6d. Write for particulars of anything you want. Hundreds of other bargains. **PHILIP JOSEPHS & SONS, LTD.**, 93 Old Street, London, E.C. Established over 90 years.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO.**, 262 Old Street, London, E.C.

THERE IS MONEY TO BE MADE

in the **PHOTOGRAPHIC DEPARTMENT** of your business, but the work must be well and quickly done. We are Experts, and return the work 9 hours after we receive it. Send for our List, and give us a trial.

STEAD & CO., Photographic Experts,
DUKE STREET, BRIGHTON.

BUSINESS OPPORTUNITIES.

An Advertising man of acknowledged reputation and capacity, a forcible writer, good organiser, able and resourceful, with a striking record of success in the developing of advertising propositions, is prepared to co-operate with a substantial business man in some promising undertaking on mutual terms. Address **CO-OPERATE**, 8 Mortimer St., Regent St., London.

ALL CHEMISTS SHOULD STOCK

ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation. "ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3. Order through your Wholesale Drug House.

D. M'CLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.
Wholesale Prices on Application

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Bromural powder or tablets Salvarsan .4 or over (148/16) (148/16)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Acid. Salicyl. (von Heyden	Scopolamin hydrochlor.	15
—original packing)	27 +	grs. (163/9)
11 lb. (163/9)	Sulfonal (Merck)	10 oz.
Atropine alkaloid 220 grs.	(163/9)	
(163/9)	Xeroform (von Heyden—	
Berberine 1 drachm (163/9)	original packing)	24 + 1
Dionine (Merck) 1 oz. (163/9)	oz. (163/9)	
Heroin ¼ oz. (163/9)		

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.**DENTAL.**

ADVERTISER requires dental requisites; chair, spittoon, etc.
State price required, etc., 53/65, Office of this Paper.

DRUGS AND CHEMICALS.

WHAT offers? phenacetin 8 oz., pot. permang. 10 lb., ac. acet. glac. 30 lb., magnesium powder 6 oz. Woodcock, Chemist, Gt. Yarmouth.
SANTONIN 5vi., 5s. 6d.; salol 4 oz., 7s. 6d.; iodum resub 4 oz., 4s.; phenazonum 4 oz., 12s. 6d.; phenolphthalein 1 oz., 5s. F. Banks, Ltd., 356 Walworth Road, London.
1 oz. morph. tart., 4 oz. bism. salicylat., 2 oz. phenacetin, 24 grs. atrop. sulph., 2 lb. pulv. nux vom., 8 oz. acid. acet. salicyl., 2 lb. gum tragac sorts, 21 lb. orange shellac; want onken younits. Offers to Biggs, Chemist, Stourbridge.

PROPRIETARY ARTICLES.

TYLER'S 2-way syphon-filling machine; cost £22. Offers, Savage, Bradford.

MISCELLANEOUS.

WATER-BED, full-sized; practically new; cost £7; what offers? Anderson, Chemist, Denny.
BATH sponges, over-bought @ 3s. 8d.; cash or exchange; approval. Braid, Chemist, Exmouth.
RUBBER water-bed; practically new; 72 in. by 36 in. Cash offers, 44 Lucien Road, Tooting, S.W.

WANTED.

GENUINE eau de cologne. Braid, Chemist, Exmouth.
SET of shop rounds; good condition. Number and price to 26 Pleydell Avenue, Hammersmith.
ECKMANN'S alterative, stamped or unstamped; cash or exchange. Thomas, Chemist, Roath, Cardiff.
WANTED, dental chair, forceps, impression trays; must be cheap. Apply, "X. 34" (159/36), Office of this Paper.
OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Volaire Road, Clapham, S.W.

German News.

A STATUE OF THE LATE DR. OTTO N. WITT has been placed in the hall of the Chemical Institute of Berlin.

SACCHARIN, which is much in demand in Germany owing to the scarcity of sugar, is also difficult to obtain.

PROFESSOR EMIL VON BEHRING has retired from the position of director of the Marburg Institute of Hygiene.

DR. FERD. FISCHER, formerly professor of chemistry in Göttingen University, died on June 28, aged seventy-six.

PROFESSOR DR. ADOLPH FRANK, one of the founders of German chemical industry, died on May 31, aged eighty-two.

FREE TRADE in coffee, tea, and substitutes thereof is again allowed in Germany to a certain extent—e.g., restaurants are allowed half their pre-war supplies at 2.20m. for half a kilo. of coffee and 5m. to 8.5m. for the same amount of tea.

PROFESSOR C. A. JUNGCLAUSSEN, of Hamburg, died on July 5, aged sixty. In 1903 he was appointed by the Deutscher Apotheker-Verein as a member of the Committee charged with the revision of the Pharmacopœia, and he collaborated in the preparation of the "Real Enzyklopädie der gesamten Pharmazie."

SCARCITY OF FORMALIN.—The Minister of the Prussian Home Department issued a decree on July 4 regarding disinfection. The manufacturers can only furnish formaldehyde solutions of 30-per-cent. strength at present, and it is expected that soon they will be unable to furnish any formaldehyde for disinfecting. The method of mechanical disinfection is recommended, followed by steam-disinfection or lime-washing, according to the nature of the goods.

CHEMICAL-WORKS.—According to the "Frankf. Ztg." the Farbenfabr. vorm. Friedr. Bayer & Co., Leverkusen, are about to purchase the manufactory of Wülfring, Dahl & Co., A.G., Barmen, which remained outside the "Interessengemeinschaft." It is also stated that the Chem. Fabrik, Jäger G.m.b.H., Düsseldorf, will be acquired.—The Vereinigte Farbwerke A.G., Kassel, made a net profit of 147,007m. in 1915-16 (1,932m. in 1914-15); a dividend of 10 per cent. will be paid.

MILITARY MEDICINE.—At a meeting of the Medical Congress in Warsaw last month, Professor Dr. von Schjerning reported that 24,000 physicians are serving with the German army—two-thirds of them in the field, and one-third at home; 3,000 are working with the Red Cross organisations; 400 dentists, 1,800 pharmacists, and 92,000 military nurses are serving with the army; while 72,000 persons have volunteered for service as nurses in Germany and 22,000 in the field. The number of hospital-trains for transporting the wounded home is 238.

A. W. VON HOFMANN, who delivered his first lecture as Professor of Chemistry at the Berlin University on May 8, 1866, was the subject of a recent contribution to the "Chemiker Ztg." by Professor Dr. H. Grossmann, of Berlin, who comments upon the immense improvement in German chemical industry consequent upon Von Hofmann's transfer from London to Berlin, especially the artificial-dye industry, and he acknowledges that German and English chemical science and industry are much indebted to each other. He hopes that international scientific and spiritual life may progress, in spite of the war.

MORTALITY AMONG PHARMACISTS.—"Verlustlisten" of German pharmacists, physicians, and chemists are regularly published in the "Pharm. Zeitung." According to a communication in the issue of July 5, the total number of these persons who have lost their lives in the service of their country since the outbreak of war is 27 military pharmacists, 396 pharmacists and pharmaceutical candidates, 701 physicians, 88 university professors and assistants of the faculties of natural science, and 278 chemists. Twenty pharmacists have obtained the iron cross of the first-class, and 571 military pharmacists and 368 pharmacists in active service the second-class cross.

SUGAR SCARCITY.—According to a decree of the Imperial Chancellor, the use of sugar for the wholesale preparation of natural or artificial fruit-syrups of all kinds, and of lemonades, etc., is prohibited. An exception is made in the case of fruit-syrups required in pharmacies for the preparation of medicaments. A certain quantity of sugar will be allowed for use in candying fruits in housekeeping. As, however, the greatest economy possible must be practised with regard to sugar, it is officially recommended to make preserves without sugar whenever possible; for instance, by sterilising them. Later on the sugar can be added when it is less scarce, or sweetening with saccharin may be allowed.



MODERN PHARMACEUTICAL PRODUCTS

SACCHARIN

Highest possible strength 550 times sweeter than cane sugar.
500 Soluble. 450 Crystals. 330 & 300.
All strengths supplied duty paid or in bond for export.

TRIVALIN

The substitute for Morphia.

Specially recommended in Painful Dressings. Inoperable Cancer, Gall Stone, Sciatica, Neuralgia, Etc. In Ampuls for Hypodermic Injection, and in coated Tablets for internal administration.

NOVOCAIN

The non-irritant Local Anæsthetic, contains no Cocaine.

(Awarded Gold Medal XVIIth International Congress of Medicine, 1913.)

“CIBA” PREPARATIONS

Phytin	Digifolin	Dial	Elbon
Fortossan	Peristaltin	Lipoiodine	Menthescin
Ferrophytin	Euclottin	Vioform	Yohimbine

Prices and Literature on application.

The Saccharin Corporation, Ltd.,

PHARMACEUTICAL DEPT.,

36 & 37, QUEEN STREET, CHEAPSIDE, LONDON, E.C.

BLAUD PILLS

*ABSOLUTELY GUARANTEED TO REMAIN AT FULL B.P.
STRENGTH FOR THREE YEARS FROM DATE OF ISSUE.*

NICKEL SCREW-CAP BOTTLES

EACH CONTAINING 1 GROSS PILLS.

EACH BOTTLE IN CARTON.

PER DOZEN

6/-

3 DOZEN AT

5/9

6 DOZEN AT

5/6

12 DOZEN AT

5/3



NAME & ADDRESS

FREE.

CARRIAGE


PAID

ON ORDERS OF

£1

AND UPWARDS.

COATING.

 Clearly specify, when ordering, shape of Pill and colour and nature of Coating.

THE FOLLOWING ARE STOCK COATINGS:

Sugar and Pearl (oval & round); Pink, White, Chocolate,
Black Gelatinoid (oval & round); Green Gelatinoid (oval & round).

SAME PRICE FOR ALL.

NOTICE.—Owing to insuperable difficulties in getting delivery of Amber Bottles, we are compelled to offer only in best Nickel Screw-cap Bottles, of which we fortunately hold a stock of 3,000 gross. Our other styles of packing are temporarily withdrawn.

